

Unità di trattamento aria

Air handling unit

UT



Sostituisce il:
Replace:
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DESCRIZIONE DELL'UNITÀ • UNIT DESCRIPTION

Le unità della serie **UT** sono il risultato di un progetto specifico mirato alla realizzazione di macchine idonee per l'installazione negli impianti centralizzati, e non, destinati all'edilizia sia civile e abitativa, che per edifici commerciali come negozi ed uffici, oppure ristoranti, bar, comunità, ecc..

Queste unità di trattamento aria (fan coil large capacity) sono in grado di contribuire alla realizzazione d'impianti sia a tutt'aria sia ad aria primaria e ventilconvettori, grazie alla loro dotazione d'accessori che li rende idonei a tutte le funzioni di: circolazione dell'aria interna nei locali, eventuale miscela con aria esterna di rinnovo, oppure ripresa di tutta aria esterna per ricambio totale o per il funzionamento in "free-cooling". L'aria è filtrata prima d'ogni trattamento sia di riscaldamento sia di raffreddamento che possono essere realizzati a mezzo d'unica batteria di scambio oppure con due batterie in sequenza (batteria di riscaldamento anche elettrica).

I vantaggi che si possono avere con queste tipologie impiantistiche sono soprattutto legate alla buona qualità dell'aria, che è portata negli ambienti in modo silenzioso e regolabile nella quantità e nella qualità delle caratteristiche termoigrometriche (anche il dispositivo d'umidificazione fa parte degli accessori).

Questi impianti inoltre sono economici nella loro realizzazione, consentono messe a regime rapide in funzione d'eventuali fermate degli impianti per abbandoni temporanei dei locali, con conseguente risparmio energetico.

Versioni

La serie **UT** si articola su sette taglie con portate da 600 a 5.250 m³/h con 50 Pa di pressione statica utile.

La potenza in raffreddamento copre un campo da 4 a 35 kW.

La potenza in riscaldamento va da 10 a 55 kW.

*The units **UT** series are the result of a specific project to realize units suitable to be incorporated in centralized plants and not, for both residential and civil buildings, for shops and offices, or restaurants, pubs, public communities etc.*

These large capacity fan coil units allow the realization of both all air and primary air plus fan coils air conditioning systems, due to the availability of accessories which makes them suitable to all the functions of: air recirculation, mixing of recirculated and fresh air, primary air handling or free-cooling operation. The air can be filtered prior to the cooling or the heating processes which can be achieved through a single coil or with two coils (the second one can be also electric type).

The advantages achievable with these HVAC systems are mainly due to the good air quality, that is supplied to the rooms without noise and controlled in the quantity and in the thermohygrometric characteristics (the humidifier is one of the accessories too).

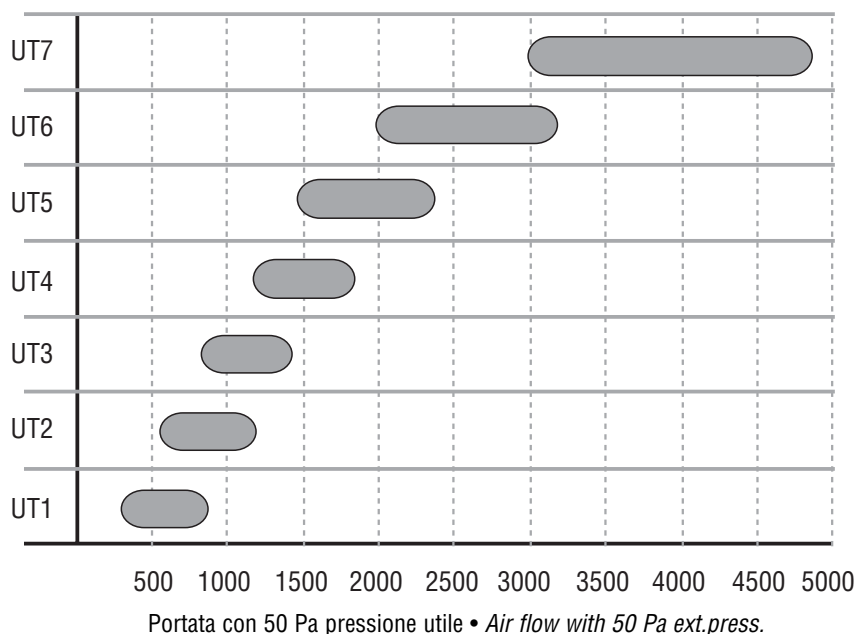
These HVAC systems are also cheap, allow quick boost operation to comply with discontinuous use of the rooms, with consequent energy saving.

Range

The UT series has seven sizes with airflows from 400 to 4800 m³/h at 50 Pa of external static pressure.

The cooling capacity covers a range from 4 to 35 kW.

The heating capacity from 10 to 55 kW.



Caratteristiche costruttive

Struttura in pannelli in lamiera zincata, sandwich per le pareti laterali portanti, a semplice parete con isolante in neoprene a cellule chiuse da 10 mm per le rimanenti. Vasca di raccolta condensa interna e isolata.

Versioni

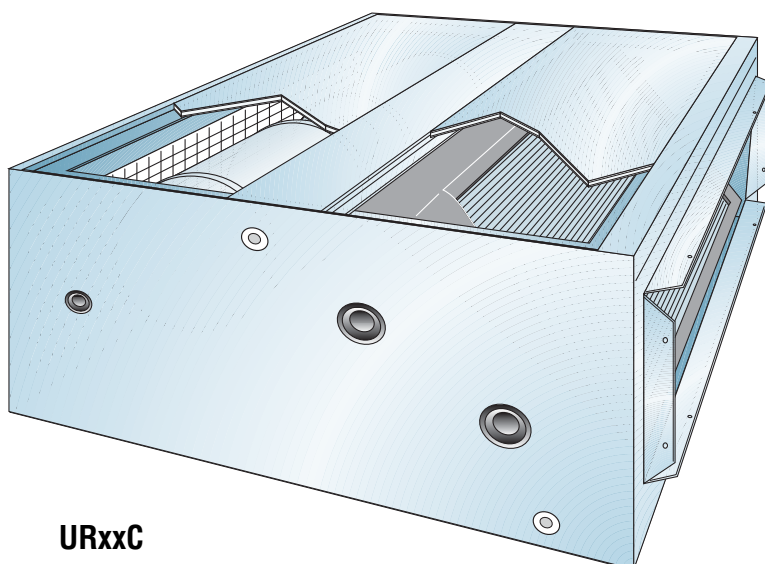
- **Base (UTxxB):** l'unità è fornita priva di cofanatura del gruppo motoventilante; tale configurazione si adatta ad installazione in controsoffitto. Il filtro, non fornibile con questa versione della macchina, deve essere previsto dall'installatore con la griglia d'aspirazione in ambiente;
- **Con plenum d'aspirazione (UTxxC):** l'unità è interamente cassonata e prevede un filtro piano installato sul pannello d'aspirazione.

Technical features

Casing with self supporting panels in galvanized steel, sandwich for the side structural panels, single wall with neoprene closed cells insulation (thk 10 mm) for the other panels. Internal insulated drain pan.

Versions

- **Basic (UTxxB):** the unit is supplied without casing around the fans; this version is suitable for installation in counterceiling. The filter, which cannot be supplied in this version, shall be provided by the installer at the intake louver of the plant;
- **With intake plenum (UTxxC):** the unit has a complete casing and includes a flat filter at the intake panel.



Componenti

- Plenum di aspirazione (solo per la versione C con plenum di aspirazione);
- filtro sintetico classe G3 sull'aspirazione (solo per la versione C con plenum di aspirazione);
- elettroventilatore/i con motore monofase a tre velocità;
- batteria di raffreddamento CuAl alettata a 3, 4 o 6 ranghi;
- vasca raccolta condensa;
- predisposizione per tubo distributore di vapore;
- staffe di fissaggio a parete/soffitto.

Components

- Intake plenum (for C version only, with intake plenum);
- G3 synthetic filter at intake (for UTxC version only, with intake plenum);
- Fan/s with single-phase 3 speed motor;
- Cooling finned coil CuAl 3,4 or 6 rows;
- Condensate drain pan;
- Provision for steam manifold;
- Supports for ceiling or wall mounting.

Identificazione

UT

X X X

Identification

B involucro versione base • *basic casing version*

C involucro con plenum ripresa • *casing with intake plenum*

3 batteria ad acqua 3 ranghi • *3 rows water coil*

4 batteria ad acqua 4 ranghi • *4 rows water coil*

6 batteria ad acqua 6 ranghi • *6 rows water coil*

E batteria ad espansione diretta • *direct expansion coil*

X estrattore (senza batteria) • *extract unit (without coil)*

1

2

3

4 Taglia • *Size*

5

6

7

Accessori

UxGA griglia di aspirazione (solo per la versione con plenum di aspirazione)

UxSR serranda di aspirazione (solo per la versione con plenum di aspirazione)

UxSM coppia di serrande con filtro per la configurazione del plenum di ripresa come camera di miscela (solo per la versione con plenum di aspirazione)

UxBP batteria di postriscaldamento ad acqua 1 rango

UxBR batteria di postriscaldamento elettrica

UxPM pannello con mandate multiple circolari

UxGM bocchetta di mandata

UxSL silenziatore (lunghezza setti 520 mm)

UUV tubo distributore per umidificazione a vapore

PX commutatore a 3 velocità per il comando del ventilatore (Nota: adatto al comando diretto solo per le grandezze UT1 - UT2 - UT3 - UT4)

PCT2 commutatore a 3 velocità per il comando del ventilatore e termostato con cambio stagione (Nota: adatto al comando diretto solo per le grandezze UT1 - UT2 - UT3 - UT4)

Accessories

UxGA intake louvre (for plenum version only)

UxSR intake damper (for plenum version only)

UxSM twin dampers with filter for the configuration of the intake plenum as 2-ways mixing box (for plenum version only)

UxBP 1 row re-heating coil

UxBR electric re-heating battery

UxPM multiple circular supply openings

UxGM supply grid

UxSL sound attenuator (length of splitters 520 mm)

UUV Manifold for steam humidifier

PX 3 speeds changeover switch for fan (Note: suitable for direct feed for sizes UCG09 - UT1 - UT2 - UT3 - UT4 only)

PCT2 3 speeds changeover switch for fan with seasonal thermostat (Note: suitable for direct feed for sizes UT1 - UT2 - UT3 - UT4 only)

Mod.		UT1	UT2	UT3	UT4	UT5	UT6	UT7
Portata nominale	m ³ /h	880	1110	1450	1870	2380	3180	4870
Nominal airflow	l/s	244	308	403	519	661	883	1353
① Press. Statica utile (1)	Pa	50	50	50	50	50	50	50
External static pressure (1)								
② Resa in raffreddamento con batteria 3R totale <i>total</i>	kW	4.7	5.1	7.3	9.3	11.5	13.4	28.6
Cooling capacity with 3-rows coil <i>sensibile sensible</i>	kW	3.4	4	5.5	6.9	8.7	11	19
② Resa in raffreddamento con batteria 4R totale <i>total</i>	kW	5.3	6.2	10.1	10.4	16	20.6	33.6
Cooling capacity with 4-rows coil <i>sensibile sensible</i>	kW	3.9	4.6	7	7.8	11	14.6	23.1
② Resa in raffreddamento con batteria 6R totale <i>total</i>	kW	6.7	8.3	11.7	14	16.7	23	35.3
Cooling capacity with 6-rows coil <i>sensibile sensible</i>	kW	4.7	5.7	7.9	9.6	11.8	16.2	24.6
③ Resa in riscaldamento con batteria 3R	kW	10.4	12.6	17.1	21.1	27.1	36.8	57.1
Heating capacity with 3-rows coil								
③ Resa in riscaldamento con batteria 4R	kW	11.9	14.5	19.9	24.3	31.6	43.1	65.8
Heating capacity with 4-rows coil								
④ Resa batteria di postriscaldamento	kW	4.9	5.9	7.9	10	12.9	17.5	25.9
Heating capacity of re-heating coil								
Velocità frontale nom. / Face velocity nom.	m/s	1.83	1.92	2.04	2.04	2.02	2.07	2.00
Ventilatori / Fans	n°	1	2	2	1	2	2	3
Motori / Motors	n°	1	1	1	1	2	2	3
Potenza totale / Total power	kW	147	147	184	245	294	490	735
Corrente assorbita / Absorbed current	A	1.35	1.6	3	2.9	3.4	5.8	8.7
Tensione / Voltage	V	230	230	230	230	230	230	230
Fasi / Phase	ph	1	1	1	1	1	1	1
Cicli / Cycles	Hz	50	50	50	50	50	50	50
Poli	n°	4	4	4	6	6	6	6
Efficienza filtri (solo per versione C)	EN779	G2	G2	G2	G2	G2	G2	G2

① Alla portata nominale con batteria 3 ranghi e filtro

② temperatura aria entrante 27°C b.s. 19°C b.u. temperatura acqua (in-out) 7-12°C

③ temperatura aria entrante 20°C temperatura acqua (in-out) 70-60°C

④ temperatura aria entrante 15°C temperatura acqua (in-out) 70-60°C

① at nominal airflow with 3-rows coil

② inlet air temperature 27°C DB 19°C WB water temperature (in-aut) 7-12°C

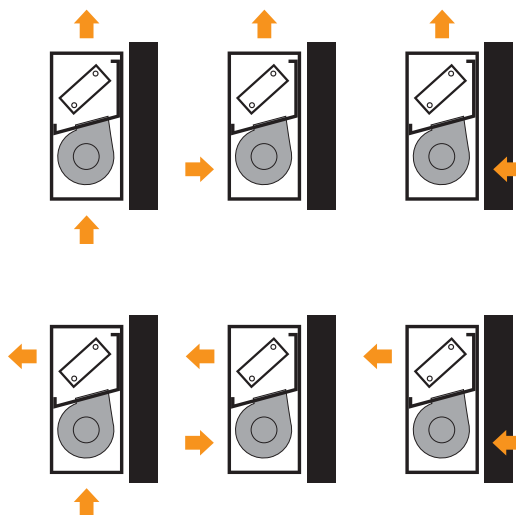
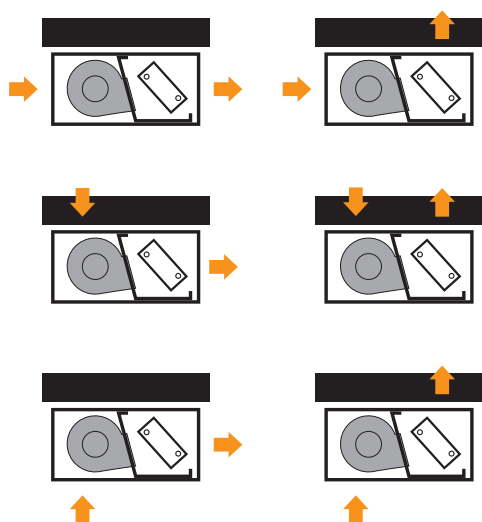
③ inlet air temperature 20°C DB water temperature (in-aut) 70-60°C inlet

④ air temperature 20°C DB water temperature (in-aut)

POSSIBILI INSTALLAZIONI • POSSIBLE INSTALLATIONS

Le molteplici possibilità di installazione sono illustrate di seguito per la versione con plenum di aspirazione UTxxC. Per la versione base UTxxB è significativa solo la posizione della bocca di mandata.

The various possible installations are shown below for the UTxxC (plenum) version. For the basic UTxxB version, only the position of the supply is significant.



CURVE CARATTERISTICHE DI VENTILAZIONE CHARACTERISTIC VENTILATION CURVES

Nei diagrammi seguenti sono rappresentate le curve portata-pressione statica utile (alle bocche della unità UT).

Tali curve si riferiscono ad unità con batteria di raffreddamento a 3 ranghi con filtro in aspirazione.

Per unità dotate di batterie diverse e/o accessoriate con batteria di postriscaldamento e/o con griglia di aspirazione e/o silenziatore, è necessario ridurre la pressione statica utile della perdita di carico relativa ai componenti sopracitati alla portata specifica.

I valori di queste perdite di carico sono rilevabili dalle tabelle riportate dopo i grafici.

Non è stato considerato il ricupero di pressione utile dovuto alla mancanza di filtro nelle unità UTxxB poichè l'impianto sarà comunque dotato di un filtro. Perciò la perdita di carico di tale filtro non dovrà essere inclusa in quelle della rete di distribuzione dell'aria.

Nelle tabelle successive sono riportati i livelli di potenza sonora emessi dalla bocca di mandata, dalla bocca di ripresa e dalla pannellatura laterale.

I valori sono riportati alle velocità max, med e min per diverse portate d'aria.

In the following diagrams are shown the ventilation curves flow-rate-external static pressure (at UT inlet+outlet).

Those curves refer to unit with 3 rows coil and filter.

For units with different coils and/or with accessories as re-heating coil and/or intake louver and/or sound attenuator, it is necessary to reduce the external static pressure by the pressure drop of the above mentioned components.

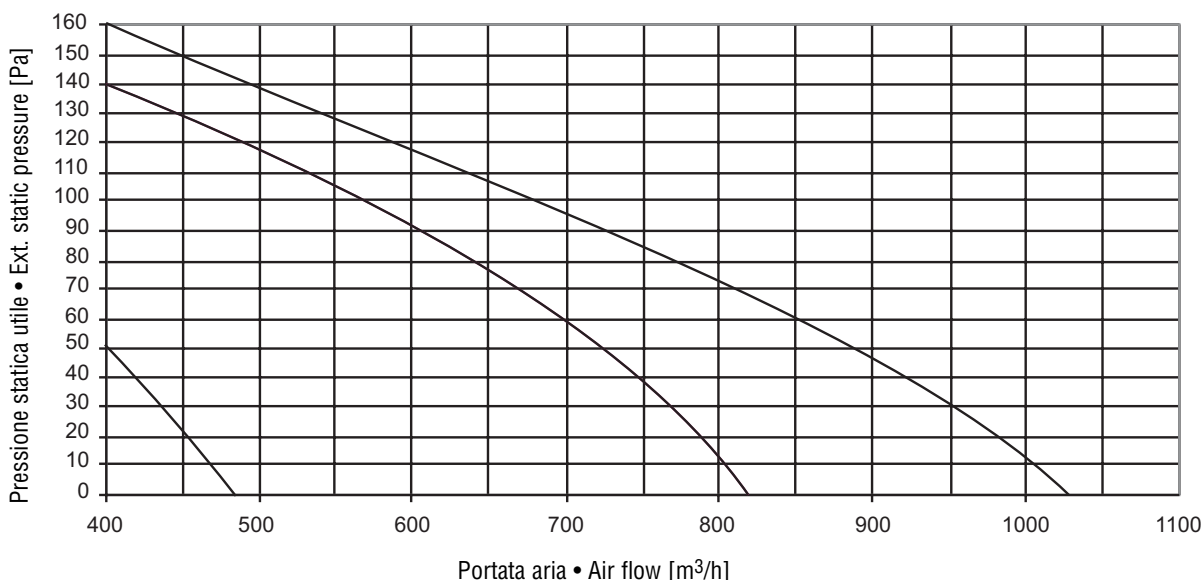
The values of those pressure drops are in the tables above the diagrams.

No additional external pressure has been considered for units UTxxB (without filter) since the plant will anyway include a filter. Therefore this pressure drop doesn't need to be considered in the pressure drop of the distribution system.

In the following tables are presented the sound power levels at unit outlet, unit intake and through the panels at the side of the unit.

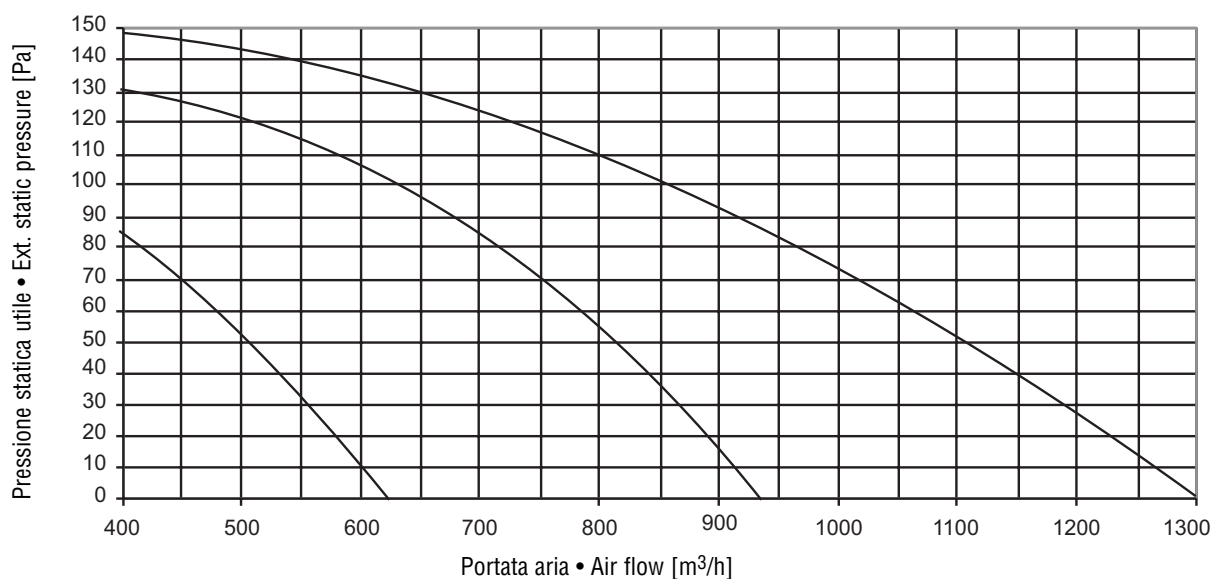
The values are shown for the max, med and min fan speeds for different flowrates.

UT1 - 3R



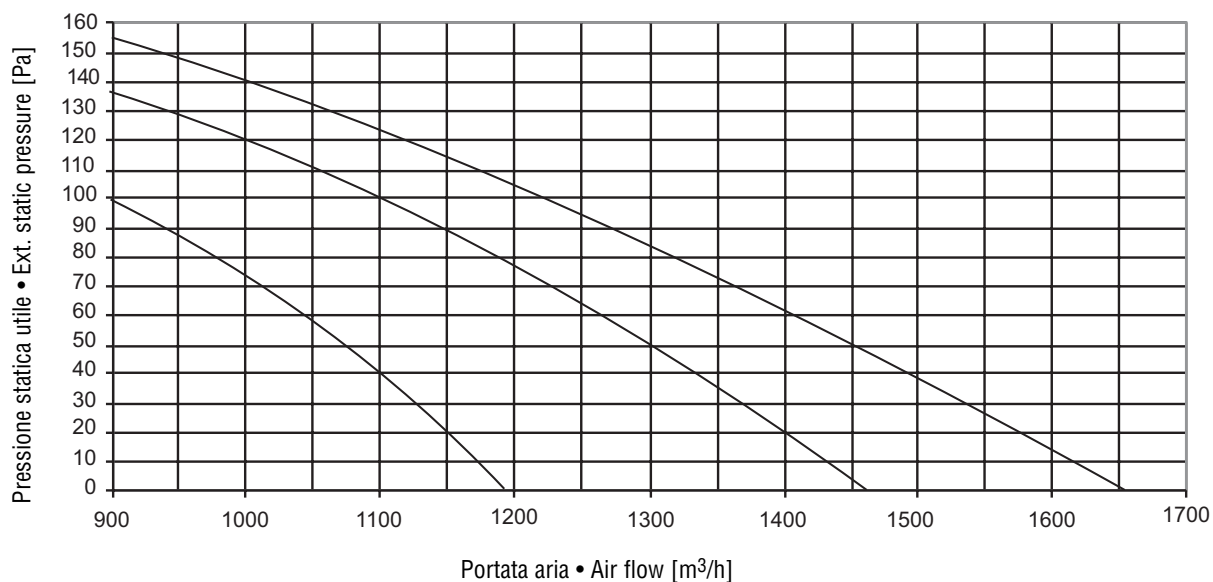
Portata aria • Air flow.	m ³ /h	400	500	600	700	800	900	1000	1100
Dp aggiuntiva batteria 4 R • Additional Dp for 4 R coil	Pa	2	4	6	7	10	12	14	16
Dp aggiuntiva batteria 6 R • Additional Dp for 6 R coil	Pa	4	8	11	14	18	23	28	32
Dp batteria postrisc.ad acqua • Dp water reheating coil	Pa	1	1	1	2	2	3	4	4
Dp batteria postrisc.elettrica • Dp electric reheating coil	Pa	1	1	1	1	1	2	2	2
Dp griglia aspirazione • Dp inlet louver	Pa	2	2	2	3	3	5	6	6
Dp silenziatore • Dp sound attenuator	Pa	2	3	4	6	7	9	11	14

UT2 - 3R

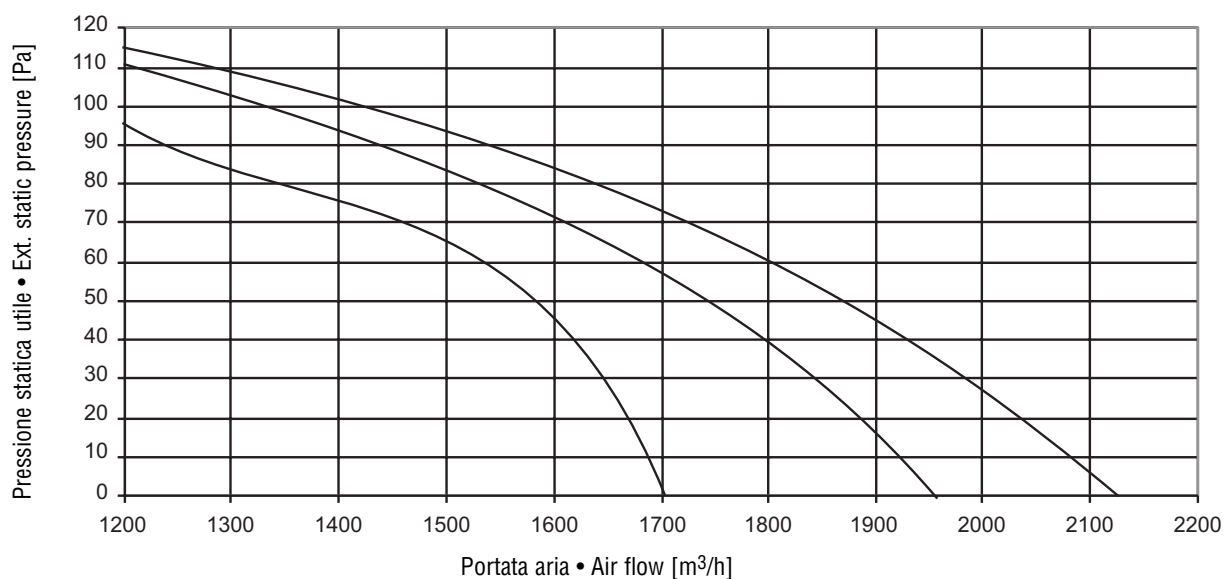


Portata aria • Air flow.	m³/h	400	500	600	700	800	900	1000	1100	1200	1300
Dp aggiuntiva batteria 4 R • Additional Dp for 4 R coil	Pa	1	4	6	7	8	9	11	13	16	18
Dp aggiuntiva batteria 6 R • Additional Dp for 6 R coil	Pa	3	8	11	13	14	17	21	24	29	34
Dp batteria postrisc.ad acqua • Dp water reheating coil	Pa	0	0	1	1	2	2	3	3	4	4
Dp batteria postrisc.elettrica • Dp electric reheating coil	Pa	0	0	1	1	1	1	2	2	2	2
Dp griglia aspirazione • Dp inlet louver	Pa	0	0	2	2	3	3	5	5	6	6
Dp silenziatore • Dp sound attenuator	Pa	1	2	2	3	4	5	6	7	8	10

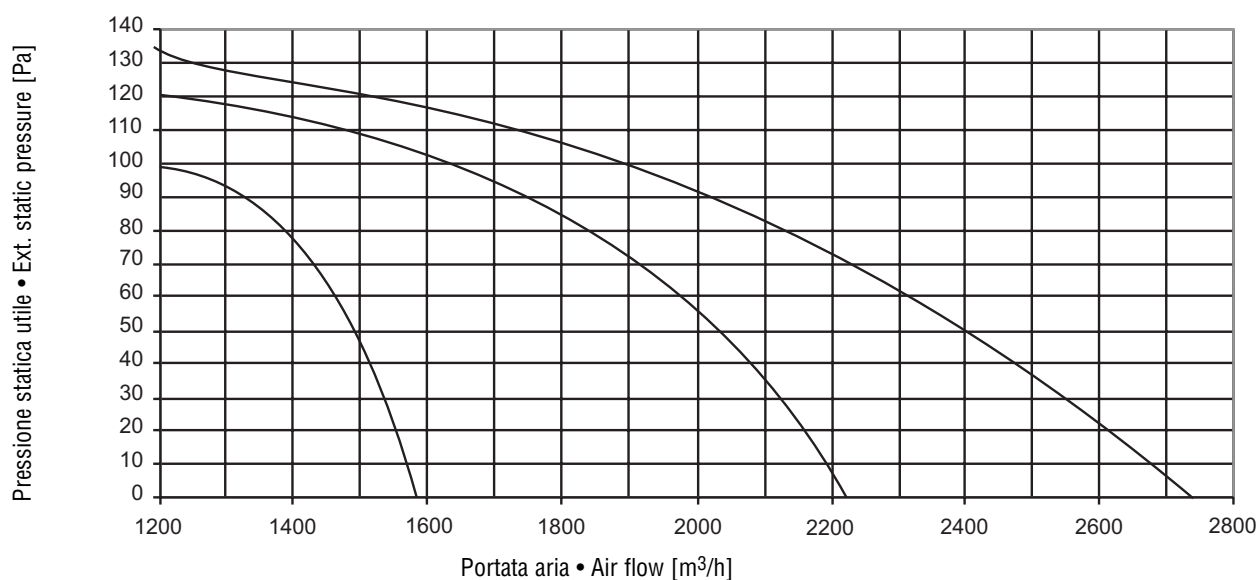
UT3 - 3R



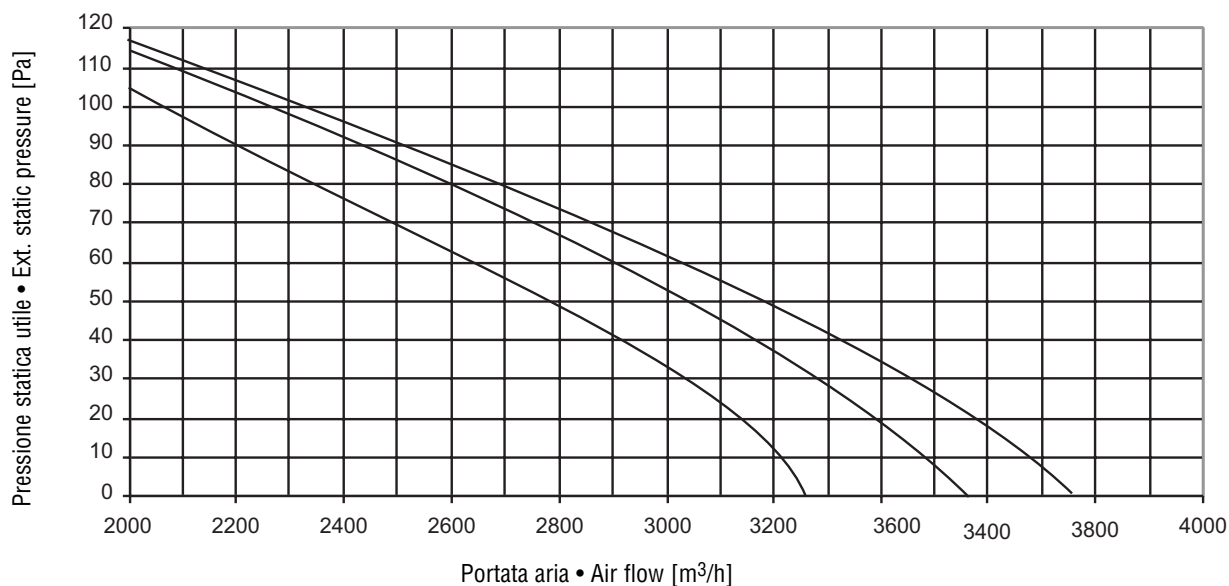
Portata aria • Air flow.	m³/h	900	1000	1100	1200	1300	1400	1500	1600	1700
Dp aggiuntiva batteria 4 R • Additional Dp for 4 R coil	Pa	6	7	8	9	11	12	14	16	18
Dp aggiuntiva batteria 6 R • Additional Dp for 6 R coil	Pa	11	13	15	18	22	24	27	31	35
Dp batteria postrisc.ad acqua • Dp water reheating coil	Pa	1	2	2	3	3	4	4	5	5
Dp batteria postrisc.elettrica • Dp electric reheating coil	Pa	1	1	1	2	2	2	2	3	3
Dp griglia aspirazione • Dp inlet louver	Pa	2	3	3	5	5	6	6	8	8
Dp silenziatore • Dp sound attenuator	Pa	4	4	5	6	7	8	10	11	12

UT4 - 3R


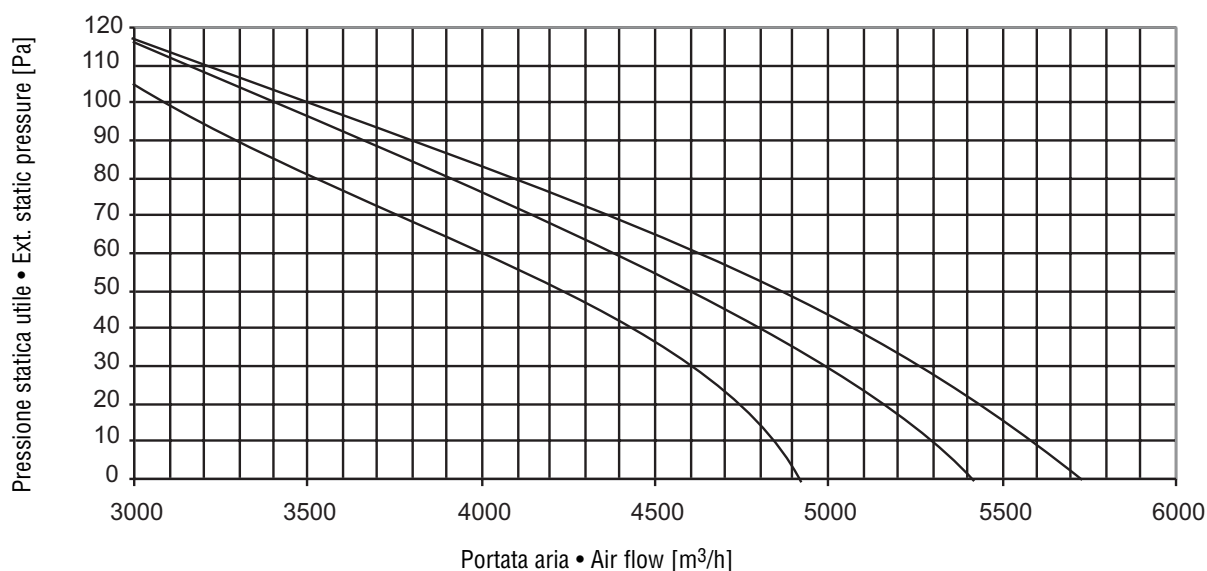
Portata aria • Air flow.	m³/h	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100
Dp aggiuntiva batteria 4 R • Additional Dp for 4 R coil	Pa	6	7	9	10	11	12	14	15	16	18
Dp aggiuntiva batteria 6 R • Additional Dp for 6 R coil	Pa	12	14	16	18	21	23	26	28	31	34
Dp batteria postrisc.ad acqua • Dp water reheating coil	Pa	2	2	3	3	3	4	4	5	5	6
Dp batteria postrisc.elettrica • Dp electric reheating coil	Pa	1	1	2	2	2	2	2	3	3	3
Dp griglia aspirazione • Dp inlet louvre	Pa	3	3	5	5	5	6	6	8	8	9
Dp silenziatore • Dp sound attenuator	Pa	4	5	5	6	7	8	9	10	11	12

UT5 - 3R


Portata aria • Air flow.	m³/h	1200	1400	1600	1800	2000	2200	2400	2600	2800
Dp aggiuntiva batteria 4 R • Additional Dp for 4 R coil	Pa	5	6	6	7	10	13	15	17	19
Dp aggiuntiva batteria 6 R • Additional Dp for 6 R coil	Pa	10	11	11	15	19	25	29	33	38
Dp batteria postrisc.ad acqua • Dp water reheating coil	Pa	1	2	2	3	3	4	4	5	6
Dp batteria postrisc.elettrica • Dp electric reheating coil	Pa	1	1	1	2	2	2	2	3	3
Dp griglia aspirazione • Dp inlet louvre	Pa	2	3	3	5	5	6	6	8	9
Dp silenziatore • Dp sound attenuator	Pa	3	4	5	7	8	10	12	14	16

UT6 - 3R


Portata aria • Air flow.	m³/h	2000	2200	2400	2600	2800	3000	3200	3400	3600	3800
Dp aggiuntiva batteria 4 R • Additional Dp for 4 R coil	Pa	6	7	9	10	11	12	14	15	17	19
Dp aggiuntiva batteria 6 R • Additional Dp for 6 R coil	Pa	12	14	16	18	21	23	26	29	33	37
Dp batteria postrisc.ad acqua • Dp water reheating coil	Pa	2	3	3	4	4	5	5	6	6	7
Dp batteria postrisc.elettrica • Dp electric reheating coil	Pa	1	2	2	2	2	3	3	3	3	4
Dp griglia aspirazione • Dp inlet louvre	Pa	3	5	5	6	6	8	8	9	9	11
Dp silenziatore • Dp sound attenuator	Pa	4	5	6	7	8	10	11	12	14	15

UT7 - 3R


Portata aria • Air flow.	m³/h	3000	3300	3600	3900	4200	4500	4800	5100	5400	5700
Dp aggiuntiva batteria 4 R • Additional Dp for 4 R coil	Pa	9	10	11	13	16	18	20	23	26	29
Dp aggiuntiva batteria 6 R • Additional Dp for 6 R coil	Pa	14	16	18	21	25	28	32	36	40	44
Dp batteria postrisc.ad acqua • Dp water reheating coil	Pa	2	3	3	4	4	5	5	6	6	7
Dp batteria postrisc.elettrica • Dp electric reheating coil	Pa	1	2	2	2	2	3	3	3	3	4
Dp griglia aspirazione • Dp inlet louvre	Pa	3	5	5	6	6	8	8	9	9	11
Dp silenziatore • Dp sound attenuator	Pa	5	6	7	9	10	11	13	15	16	18

DATI SONORI • SAUND DATA

Velocità <i>fan speed</i>		Portata <i>air flow</i>	Potenza sonora per frequenza centrale di banda (Hz) <i>Sound power band middle frequency (Hz)</i>							Potenza totale <i>Total power</i>	
			125 dB	250 dB	500 dB	1000 dB	2000 dB	4000 dB	8000 dB	dB	dB (A)
UT1	Max	1000	67,2	65,9	57,7	58,0	57,5	54,7	51,4	70,5	64,4
	Max	800	62,3	61,0	52,8	53,1	52,6	49,8	46,5	65,7	59,6
	Max	600	56,1	54,8	46,6	46,9	46,4	43,6	40,3	59,4	53,3
	Med	800	63,3	60,8	53,8	54,1	53,3	49,6	46,2	66,2	60,0
	Med	600	57,0	54,5	47,5	47,8	47,0	43,3	39,9	59,9	53,8
	Med	400	48,2	45,7	38,7	39,0	38,2	34,5	31,1	51,1	45,0
	Min	400	50,9	48,7	48,0	41,8	39,3	33,9	24,8	54,6	48,7
	Max	1300	65,1	66,5	58,1	59,0	56,6	53,0	47,1	69,9	64,3
	Max	1000	59,4	60,8	52,4	53,3	50,9	47,3	41,4	64,2	58,6
UT2	Max	700	51,7	53,1	44,7	45,6	43,2	39,6	33,7	56,5	50,9
	Med	900	60,5	61,5	54,5	54,0	50,6	46,2	38,6	65,0	59,1
	Med	700	55,0	56,0	49,0	48,5	45,1	40,7	33,1	59,6	53,6
	Med	500	47,7	48,7	41,7	41,2	37,8	33,4	25,8	52,3	46,3
	Min	600	52,6	52,3	50,1	45,3	39,3	32,2	18,8	57,0	50,9
	Min	400	43,8	43,5	41,3	36,5	30,5	23,4	10,0	48,2	42,1
	Max	1600	69,2	71,0	64,0	62,2	60,1	57,0	52,1	74,3	68,4
	Max	1300	64,7	66,5	59,5	57,7	55,6	52,5	47,6	69,8	63,9
	Max	1000	59,0	60,8	53,8	52,0	49,9	46,8	41,9	64,1	58,2
UT3	Med	1400	65,3	67,1	60,3	58,2	56,0	51,9	46,5	70,3	64,3
	Med	1200	61,9	63,7	56,9	54,8	52,6	48,5	43,1	67,0	61,0
	Med	1000	58,0	59,8	53,0	50,9	48,7	44,6	39,2	63,0	57,0
	Min	1200	59,4	60,0	55,3	51,1	47,7	41,8	32,7	63,8	57,4
	Min	1000	55,4	56,0	51,3	47,1	43,7	37,8	28,7	59,9	53,4
	Max	2100	73,0	73,4	63,7	65,2	62,1	58,0	47,9	76,8	69,5
	Max	1800	69,6	70,0	60,3	61,8	48,7	54,6	44,5	73,5	66,2
	Max	1500	65,7	66,1	56,4	57,9	44,8	50,7	40,6	69,5	62,2
	Med	1900	71,3	68,8	62,5	64,1	60,9	56,6	46,4	74,4	68,5
UT4	Med	1600	67,6	65,1	58,8	60,4	57,2	52,9	42,7	70,6	64,8
	Med	1300	63,1	60,6	54,3	55,9	52,7	48,4	38,2	66,1	60,3
	Min	1700	70,7	67,8	62,4	63,5	59,7	54,5	44,0	73,6	67,6
	Min	1500	68,0	65,1	59,7	60,8	57,0	51,8	41,3	70,9	64,9
	Min	1300	64,9	62,0	56,6	57,7	53,9	48,7	38,2	67,8	61,8
	Max	2600	68,9	66,4	64,5	65,1	61,6	56,9	47,4	73,1	69,0
	Max	2100	64,3	61,8	59,9	60,5	57,0	52,3	42,8	68,5	64,4
	Max	1600	58,4	55,9	54,0	54,6	51,1	46,4	36,9	62,5	58,5
	Med	2200	66,6	64,4	62,8	62,8	59,0	52,7	42,6	70,8	66,6
UT5	Med	1800	62,2	60,0	58,4	58,4	54,6	48,3	38,2	66,5	62,3
	Med	1400	56,8	54,6	53,0	53,0	49,2	42,9	32,8	61,0	56,8
	Min	1600	61,4	61,4	58,5	57,1	52,2	42,7	30,7	66,2	61,2
	Min	1400	58,5	58,5	55,6	54,2	49,3	39,8	27,8	63,3	58,3
	Min	1200	55,1	55,1	52,2	50,8	45,9	36,4	24,4	59,9	54,9
	Max	3800	73,8	78,5	67,3	67,4	64,3	60,2	51,0	80,4	73,7
	Max	3200	70,1	74,8	63,6	63,7	60,6	56,5	47,3	76,7	69,9
	Max	2600	65,5	70,2	59,0	59,1	56,0	51,9	42,7	72,1	65,4
	Med	3600	72,1	74,1	66,5	66,2	63,0	58,6	49,3	77,3	71,5
UT6	Med	3000	68,2	70,2	62,6	62,3	59,1	54,7	45,4	73,4	67,5
	Med	2400	63,3	65,3	57,7	57,4	54,2	49,8	40,5	68,5	62,7
	Min	3200	69,8	72,2	64,7	64,3	60,9	55,8	46,4	75,3	69,5
	Min	2600	65,3	67,7	60,2	59,8	56,4	51,3	41,9	70,8	64,9
	Min	2000	59,6	62,0	54,5	54,1	50,7	45,6	36,2	65,1	59,3
	Max	5700	78,1	80,1	70,0	70,0	66,7	63,1	53,1	82,9	76,0
	Max	4800	74,4	76,4	66,3	66,3	63,0	59,4	49,4	79,1	72,2
	Max	3900	69,9	71,9	61,8	61,8	58,5	54,9	44,9	74,6	67,7
	Med	5400	75,1	76,4	68,7	68,7	65,6	61,6	51,2	79,8	73,9
UT7	Med	4500	71,1	72,4	64,7	64,7	61,6	57,6	47,2	75,9	69,9
	Med	3600	66,3	67,6	59,9	59,9	56,8	52,8	42,4	71,0	65,1
	Min	4800	73,3	76,5	67,6	66,9	63,5	58,9	48,1	79,0	72,6
	Min	3900	68,7	71,9	63,0	62,3	58,9	54,3	43,5	74,5	68,1
	Min	3000	63,0	66,2	57,3	56,6	53,2	48,6	37,8	68,8	62,4

TABELLE DI RESA DELLE BATTERIE DI SCAMBIO TERMICO

CAPACITIES OF THE HEAT EXCHANGERS

Nelle tabelle seguenti sono riportate le tabelle relative alle prestazioni delle batterie di scambio termico per le combinazioni tipiche di temperatura del fluido termovettore e caratteristiche termoidrometriche dell'aria in ingresso. Per ogni taglia UT sono presi in considerazione sei valori di portata.

I valori per le batterie ad espansione diretta si riferiscono al funzionamento con fluido refrigerante R407C.

Nella prima tabella sono riportate le caratteristiche delle batterie di postriscaldamento elettriche.

In the following tables are shown the performances of the coils for typical combinations of the primary fluid and the thermohydraulic conditions of the air at the intake of the coil. For each UT size six values of air flow are considered.

The tables for the direct expansion coils refer to operation with refrigerant R407C.

In the first table the characteristics of the electric re-heating coils are shown.

LEGENDA		
Tw	temperatura acqua entrante ed uscente	[°C]
3.4.6 R	ranghi batteria	[n°]
Pa	portata aria	[m³/h]
Tia	temperatura aria entrante	[°C]
Tua	temperatura aria uscente	[°C]
Tie	temperatura refrigerante ingresso evaporatore	[°C]
Tue	temperatura refrigerante uscita evaporatore	[°C]
Tuc	temperatura refrigerante uscita condensatore	[°C]
Ur	umidità relativa	[%]
Qtot	potenza termica totale	[kW]
Qsen	potenza termica sensibile	[kW]
Pw	portata acqua	[l/h]
Vw	velocità acqua nei tubi della batteria	[m/s]
DPw	perdita di carico lato acqua	[kPa]
Dt	differenza di temperatura	[K]

LEGENDA		
Tw	inlet and outlet water temperature	[°C]
3.4.6 R	coil's rows	[n°]
Pa	air flowrate	[m³/h]
Tia	inlet air temperature	[°C]
Tua	outlet air temperature	[°C]
Tie	refrigerant temperature at evaporator inlet	[°C]
Tue	refrigerant temperature at evaporator outlet	[°C]
Tuc	refrigerant temperature at condenser outlet	[°C]
Ur	relative humidity	[%]
Qtot	total power	[kW]
Qsen	sensible power	[kW]
Pw	water flowrate	[l/h]
Vw	water velocity inside coil's tubes	[m/s]
DPw	water side pressure drop	[kPa]
Dt	temperature difference	[K]

Batterie di postriscaldamento elettriche

Electric re-heating batteries

Portata aria • Air flow.		UT1	UT2	UT3	UT4	UT5	UT6	UT7
Resa batteria di postriscaldamento elettrica	[kW]	5	6	8	10	12	18	26
<i>Heating capacity of electric re-heating coil</i>								
Tensione / Voltage - fasi / phase	[V]	400-3	400-3	400-3	400-3	400-3	400-3	400-3
Dt	[K]	15.8	15.3	14.8	15.1	14.1	15.3	14.7
N° stadi / No. steps		1	1	2	2	2	2	2

UT1 - BATTERIA DI RAFFREDDAMENTO AD ACQUA

UT1 - WATER COOLING COILSUT

Tw 7 - 12°C				3R							4R							6R						
Pa m³/h	Va m/s	Tia °C	Ur %	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa
500	0.97	22	50	13.5	86	1.42	1.42	245	0.33	2	12.1	94	1.66	1.66	286	0.29	2	11.5	97	1.82	1.76	312	0.25	2
500	0.97	24	50	14.4	89	1.7	1.59	293	0.39	3	13.2	94	2.02	1.8	347	0.35	3	11.7	97	2.5	2.04	430	0.34	3
500	0.97	26	50	14.7	89	2.43	1.87	418	0.56	6	13.3	94	2.78	2.09	479	0.48	4	11.7	97	3.33	2.36	573	0.46	5
500	0.97	28	50	14.7	88	3.31	2.18	570	0.76	10	13.3	94	3.67	2.41	631	0.63	7	11.5	97	4.26	2.7	733	0.59	8
500	0.97	30	50	14.6	88	4.27	2.5	735	0.98	15	13	93	4.71	2.76	809	0.81	11	11.3	97	5.27	3.05	906	0.73	11
500	0.97	32	50	14.7	87	5.27	2.8	906	1.21	22	12.8	93	5.77	3.1	993	0.99	16	11	96	6.34	3.39	1090	0.87	15
600	1.17	22	50	14	83	1.61	1.61	277	0.37	3	12.6	90	1.88	1.88	323	0.32	2	11.2	99	2.2	2.17	378	0.3	2
600	1.17	24	50	14.9	87	1.91	1.82	328	0.44	4	13.6	93	2.26	2.07	389	0.39	3	12.1	96	2.84	2.37	488	0.39	4
600	1.17	26	50	15.1	87	2.8	2.16	482	0.64	7	13.7	92	3.21	2.43	552	0.55	6	12	96	3.86	2.76	664	0.53	6
600	1.17	28	50	15	86	3.9	2.55	672	0.9	13	13.6	92	4.35	2.84	747	0.75	10	11.8	96	5.01	3.18	862	0.69	10
600	1.17	30	50	15	86	5.04	2.92	867	1.16	21	13.3	92	5.57	3.25	958	0.96	15	11.6	95	6.24	3.6	1073	0.86	15
600	1.17	32	50	15.1	85	6.18	3.27	1064	1.42	29	13.2	91	6.84	3.65	1176	1.18	21	11.3	95	7.52	4.01	1294	1.04	20
700	1.36	22	50	14.4	81	1.78	1.78	307	0.41	3	13.1	88	2.09	2.09	359	0.36	3	11.5	98	2.46	2.46	423	0.34	3
700	1.36	24	50	15.2	86	2.11	2.05	364	0.49	5	14	91	2.5	2.33	431	0.43	4	12.4	95	3.18	2.69	546	0.44	5
700	1.36	26	50	15.3	85	3.22	2.46	554	0.74	9	14	91	3.65	2.77	628	0.63	7	12.3	95	4.4	3.16	756	0.61	8
700	1.36	28	50	15.3	85	4.5	2.91	773	1.03	17	13.8	91	5.01	3.26	862	0.86	12	12.1	95	5.77	3.66	992	0.79	13
700	1.36	30	50	15.4	84	5.78	3.33	995	1.33	26	13.6	90	6.43	3.74	1107	1.11	19	11.8	94	7.21	4.15	1239	0.99	19
700	1.36	32	50	15.8	84	6.95	3.67	1195	1.59	36	13.5	90	7.87	4.19	1354	1.36	27	11.6	94	8.68	4.62	1494	1.2	26
800	1.56	22	50	14.7	79	1.96	1.96	336	0.45	4	13.4	86	2.29	2.29	394	0.39	3	11.8	95	2.72	2.72	468	0.37	3
800	1.56	24	50	15.5	85	2.32	2.26	399	0.53	5	14.3	90	2.74	2.59	471	0.47	4	12.7	94	3.5	3	602	0.48	5
800	1.56	26	50	15.6	84	3.63	2.75	625	0.83	12	14.2	90	4.1	3.11	706	0.71	9	12.5	94	4.94	3.55	850	0.68	10
800	1.56	28	50	15.5	83	5.08	3.26	875	1.17	21	14	89	5.68	3.67	977	0.98	15	12.3	94	6.52	4.13	1122	0.9	16
800	1.56	30	50	15.8	83	6.44	3.7	1108	1.48	32	13.8	89	7.28	4.21	1253	1.25	24	12	93	8.16	4.68	1404	1.12	24
800	1.56	32	50	16.3	83	7.67	4.05	1319	1.76	43	13.9	89	8.8	4.67	1513	1.51	33	11.9	93	9.83	5.21	1690	1.35	33
900	1.75	22	50	14.9	78	2.12	2.12	365	0.49	5	13.7	84	2.49	2.49	429	0.43	4	12.1	94	2.97	2.97	511	0.41	4
900	1.75	24	50	15.7	83	2.53	2.48	436	0.58	6	14.5	89	2.98	2.84	512	0.51	5	12.9	93	3.83	3.3	659	0.53	6
900	1.75	26	50	15.7	83	4.06	3.05	698	0.93	14	14.4	89	4.57	3.44	787	0.79	11	12.7	93	5.5	3.95	946	0.76	12
900	1.75	28	50	15.8	82	5.65	3.6	972	1.3	25	14.2	88	6.35	4.08	1093	1.09	19	12.4	93	7.29	4.6	1255	1	19
900	1.75	30	50	16.2	82	7.02	4.03	1207	1.61	37	14.1	88	8.11	4.67	1395	1.4	29	12.2	92	9.11	5.21	1567	1.25	29
900	1.75	32	50	16.8	81	8.36	4.42	1438	1.92	50	14.4	88	9.64	5.12	1659	1.66	39	12.2	92	10.9	5.76	1871	1.5	39
1000	1.95	22	50	15.2	77	2.29	2.29	394	0.53	5	14	83	2.69	2.69	462	0.46	4	12.4	92	3.22	3.22	554	0.44	5
1000	1.95	24	50	15.9	82	2.75	2.69	473	0.63	7	14.7	88	3.22	3.09	554	0.55	6	13.1	93	4.17	3.61	717	0.57	7
1000	1.95	26	50	15.9	82	4.49	3.33	772	1.03	17	14.5	88	5.05	3.78	869	0.87	13	12.8	92	6.07	4.34	1044	0.84	14
1000	1.95	28	50	16	81	6.2	3.93	1066	1.42	30	14.3	87	7.02	4.48	1208	1.21	22	12.6	92	8.05	5.06	1385	1.11	23
1000	1.95	30	50	16.6	81	7.57	4.35	1302	1.74	42	14.4	87	8.8	5.07	1514	1.52	33	12.4	92	10	5.73	1726	1.38	34
1000	1.95	32	50								14.8	87	10.5	5.55	1799	1.8	45	12.6	91	11.9	6.28	2039	1.63	45

Tw 5 - 12°C																								
Pa m³/h	Va m/s	Tia °C	Ur %	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa
500	0.97	22	50	12.5	89	1.71	1.59	294	0.39	3	11.2	94	2.03	1.8	349	0.35	3	9.7	97	2.5	2.05	430	0.34	3
500	0.97	24	50	12.8	88	2.37	1.85	408	0.54	6	11.4	93	2.73	2.09	469	0.47	4	9.7	97	3.26	2.37	560	0.45	5
500	0.97	26	50	12.9	88	3.16	2.15	544	0.73	9	11.4	93	3.55	2.4	611	0.61	7	9.7	97	4.11	2.7	707	0.57	7
500	0.97	28	50	12.9	87	4.05	2.47	696	0.93	14	11.3	93	4.47	2.74	769	0.77	10	9.5	96	5.04	3.03	867	0.69	10
500	0.97	30	50	12.9	87	4.98	2.78	856	1.14	20	11.1	93	5.46	3.07	939	0.94	15	9.3	96	6.03	3.37	1037	0.83	14
500	0.97	32	50	13	87	5.93	3.06	1020	1.36	28	11	92	6.49	3.4	1117	1.12	20	9.1	96	7.07	3.71	1216	0.97	19
600	1.17	22	50	13	87	1.91	1.81	329	0.44	4	11.7	92	2.28	2.07	392	0.39	3	10.2	96	2.83	2.38	488	0.39	4
600	1.17	24	50	13.2	87	2.73	2.14	469	0.63	7	11.9	92	3.13	2.42	538	0.54	5	10.2	96	3.76	2.76	648	0.52	6
600	1.17	26	50	13.3	86	3.71	2.51	638	0.85	12	11.8	92	4.15	2.81	714	0.71	9	10	95	4.82	3.16	828	0.66	9
600	1.17	28	50	13.3	86	4.77	2.88	820	1.09	19	11.6	91	5.28	3.22	908	0.91	14	9.8	95	5.95	3.58	1023	0.82	14
600	1.17	30	50	13.4	85	5.85	3.24	1006	1.34	27	11.5	91	6.47	3.62	1112	1.11	20	9.6	95	7.14	3.99	1228	0.98	19
600	1.17	32	50	13.7	85	6.9	3.55	1187	1.58	36	11.4	91	7.68	4	1321	1.32	26	9.4	95	8.38	4.38	1442	1.15	25
700	1.36	22	50	13.3	86	2.11	2.03	364	0.49	5	12.1	91	2.51	2.33	431	0.43	4	10.5	95	3.16	2.69	544	0.44	5
700	1.36	24	50	13.6	85	3.1	2.43	533	0.71	9	12.2	91	3.54	2.74	608	0.61	7	10.5	95	4.27	3.14	735	0.59	8
700	1.36	26	50	13.6	84	4.26	2.86	733	0.98	16	12.1	90	4.77	3.22	820	0.82	11	10.3	94	5.53	3.63	950	0.76	12
700	1.36	28	50	13.7	84	5.47	3.29	941	1.26	24	11.9	90	6.09	3.69	1048	1.05	18	10	94	6.86	4.12	1180	0.94	18
700	1.36	30	50	13.9	83	6.66	3.67	1146	1.53	34	11.8	90	7.46	4.15	1282	1.28	25	9.9	94	8.24	4.59	1418	1.14	24
700	1.36	32	50	14.4	83	7.76	3.98	1335	1.78	44	11.8	89	8.81	4.57	1516	1.52	34	9.7	94	9.67	5.04	1664	1.33	32
800	1.56	22	50	13.6	84	2.31	2.24	397	0.53	5	12.4	90	2.74	2.58	471	0.47	4	10.8	94	3.48	2.99	599	0.48	5
800	1.56	24	50	13.8	84	3.48	2.71	598	0.8	11	12.4	90	3.96	3.07	681	0.68	8	10.7	94	4.79	3.53	823	0.66	9
800	1.56	26	50	13.8	83	4.81	3.21	828	1.1	19	12.3	89	5.39	3.62	927	0.93	14	10.5	93	6.24	4.09	1074	0.86	15
800	1.56	28	50	14	82	6.15	3.68	1058	1.41	30	12.1	89	6.89	4.16	1185	1.19	22	10.3	93	7.77	4.65	1336	1.07	22
800	1.56	30	50	14.4	82	7.36	4.05	1265	1.69	40	12.1	88	8.41	4.66	1446	1.45	31	10.1	93	9.33	5.18	1604	1.28	30
800	1.56	32	50	15	82	8.58	4.39	1475	1.97	53	12.4	88	9.8	5.07	1686	1.69	40	10	93	10.9	5.68	1880	1.5	40
900	1.75	22	50	13.9	83	2.51	2.45	432	0.58	6	12.6	89	2.97	2.82	510	0.51	5	11	93	3.8	3.29	654	0.52	6
900	1.75	24	50	14	82	3.87	2.99	665	0.89	13	12.6	88	4.39	3.4	755	0.76	10	10.9	93	5.31	3.91	913	0.73	11
900	1.75	26	50	14.1	82	5.35	3.54	921	1.23	23	12.5	88	6.02	4.02	1036	1.04	17	10.7	92	6.96	4.55	1197	0.96	18
900	1.75	28	50	14.3	81	6.76	4.03	1163	1.55	35	12.4	87	7.68	4.61	1321	1.32	26	10.5	92	8.66	5.17	1490	1.19	26
900	1.75	30	50	14.9	81	8.02	4.41	1379	1.84	47	12.5	87	9.25	5.12	1591	1.59	37	10.3	92	10.4	5.76	1788	1.43	36
900	1.75	32	50								12.9	87	10.8	5.56	1850	1.85	48	10.5	92	12.1	6.26	2074	1.66	47
1000	1.95	22	50	14.1	82	2.72	2.65	468	0.62	7	12.8	88	3.2	3.06	550	0.55	6	11.2	92	4.12	3.59	709	0.57	7
1000	1.95	24	50	14.2	81	4.27	3.27	734	0.98	16	12.8	87	4.83	3.72	831	0.83	12	11.1	92	5.84	4.3	1004	0.8	13
1000	1.95	26	50	14.3	81	5.89	3.87	1012	1.35	27	12.6	87	6.65	4.41	1144	1.15	21	10.8	92	7.68	5.01	1321	1.06	21
1000	1.95	28	50	14.7	80	7.29	4.35	1254	1.67	40	12.6	86	8.45	5.05	1454	1.45	31	10.7	91	9.55	5.68	1642	1.31	31
1000	1.95	30	50								12.9	86	10	5.55	1725	1.73	42	10.7	91	11.4	6.29	1957	1.57	43
1000	1.95	32	50																					

UT2 - BATTERIA DI RAFFREDDAMENTO AD ACQUA

UT2 - WATER COOLING COILSUT

Tw7 - 12°C				3R							4R							6R						
Pa m³/h	Va m/s	Tia °C	Ur %	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa
800	1.33	22	50	14.7	79	1.95	1.95	336	0.34	2	13.3	87	2.34	2.34	402	0.32	2	11.3	99	2.87	2.87	494	0.4	4
800	1.33	24	50	15.2	87	2.35	2.35	403	0.4	3	14.2	92	2.7	2.61	465	0.37	3	12.1	95	3.86	3.17	664	0.53	7
800	1.33	26	50	15.9	86	3.26	2.66	560	0.56	5	14.4	91	3.9	3.07	672	0.54	5	11.8	95	5.38	3.76	926	0.74	13
800	1.33	28	50	15.9	85	4.69	3.17	807	0.81	9	14.1	91	5.48	3.63	942	0.75	9	11.4	95	6.98	4.34	1200	0.96	20
800	1.33	30	50	15.8	85	6.25	3.68	1075	1.08	15	13.9	91	7.15	4.2	1231	0.99	14	11.2	94	8.6	4.89	1479	1.18	29
800	1.33	32	50	15.9	84	7.81	4.16	1343	1.34	22	13.7	90	8.85	4.74	1522	1.22	20	11.1	94	10.2	5.42	1762	1.41	39
900	1.49	22	50	15	78	2.11	2.11	362	0.36	2	13.6	85	2.53	2.53	435	0.35	2	11.5	97	3.15	3.15	542	0.43	5
900	1.49	24	50	15.5	85	2.55	2.55	438	0.44	3	14.4	91	2.9	2.85	499	0.4	3	12.2	94	4.27	3.51	734	0.59	8
900	1.49	26	50	16.1	85	3.59	2.93	617	0.62	6	14.5	90	4.34	3.4	747	0.6	6	11.9	94	6.01	4.19	1034	0.83	15
900	1.49	28	50	16.1	84	5.25	3.51	903	0.9	11	14.3	90	6.13	4.04	1055	0.84	11	11.6	94	7.8	4.84	1341	1.07	24
900	1.49	30	50	16.1	84	6.97	4.08	1199	1.2	18	14	90	8	4.67	1376	1.1	17	11.4	94	9.59	5.45	1649	1.32	35
900	1.49	32	50	16.3	83	8.59	4.56	1477	1.48	26	13.9	89	9.86	5.26	1697	1.36	24	11.4	93	11.3	5.98	1946	1.56	46
1000	1.66	22	50	15.3	76	2.25	2.25	388	0.39	3	13.9	83	2.72	2.72	467	0.37	3	11.7	96	3.43	3.43	590	0.47	6
1000	1.66	24	50	15.7	83	2.74	2.74	472	0.47	4	14.7	90	3.1	3.09	533	0.43	3	12.4	94	4.68	3.85	805	0.64	10
1000	1.66	26	50	16.3	84	3.93	3.19	676	0.68	7	14.7	89	4.77	3.73	820	0.66	7	12	93	6.64	4.61	1142	0.91	18
1000	1.66	28	50	16.3	83	5.8	3.85	998	1	13	14.4	89	6.79	4.45	1167	0.93	13	11.7	93	8.6	5.33	1480	1.18	29
1000	1.66	30	50	16.3	82	7.66	4.46	1318	1.32	22	14.2	88	8.83	5.13	1519	1.22	20	11.6	93	10.5	5.98	1812	1.45	41
1000	1.66	32	50	16.8	82	9.28	4.93	1596	1.6	30	14.3	88	10.8	5.73	1853	1.48	28							
1100	1.82	22	50	15.5	75	2.4	2.4	412	0.41	3	14.1	82	2.9	2.9	499	0.4	3	11.9	95	3.7	3.7	637	0.51	7
1100	1.82	24	50	16	82	2.94	2.94	506	0.51	4	14.4	91	3.51	3.51	604	0.48	4	12.5	93	5.1	4.2	878	0.7	12
1100	1.82	26	50	16.5	83	4.3	3.46	739	0.74	8	14.8	89	5.21	4.05	896	0.72	8	12.1	93	7.27	5.03	1249	1	21
1100	1.82	28	50	16.4	82	6.35	4.18	1093	1.09	16	14.5	88	7.45	4.85	1281	1.03	15	11.9	92	9.4	5.8	1616	1.29	34
1100	1.82	30	50	16.5	81	8.32	4.82	1431	1.43	25	14.4	88	9.65	5.59	1660	1.33	23	12	92	11.4	6.46	1958	1.57	47
1100	1.82	32	50	17.2	81	9.94	5.28	1710	1.71	34	14.7	87	11.6	6.17	1994	1.6	32							
1200	1.99	22	50	15.7	74	2.54	2.54	437	0.44	3	14.3	81	3.08	3.08	530	0.42	3	12.1	94	3.97	3.97	684	0.55	7
1200	1.99	24	50	16.1	81	3.13	3.13	539	0.54	5	14.6	90	3.76	3.76	646	0.52	4	12.6	92	5.53	4.54	952	0.76	13
1200	1.99	26	50	16.6	82	4.68	3.73	804	0.8	9	14.9	88	5.66	4.38	974	0.78	9	12.2	92	7.89	5.45	1357	1.09	25
1200	1.99	28	50	16.5	81	6.9	4.51	1187	1.19	18	14.7	87	8.1	5.24	1393	1.12	17	12	91	10.2	6.27	1751	1.4	39
1200	1.99	30	50	16.9	81	8.84	5.13	1521	1.52	28	14.6	87	10.4	6.01	1792	1.43	27	12.2	91	12.2	6.94	2101	1.68	53
1200	1.99	32	50	17.5	80	10.6	5.62	1821	1.82	38	15	86	12.4	6.59	2132	1.71	36							
1300	2.16	22	50	15.8	74	2.68	2.68	461	0.46	3	14.5	80	3.26	3.26	561	0.45	4	12.2	93	4.24	4.24	730	0.58	8
1300	2.16	24	50	16.3	81	3.33	3.33	573	0.57	5	14.7	89	4	4	688	0.55	5	12.7	92	5.95	4.87	1023	0.82	15
1300	2.16	26	50	16.7	81	5.06	4	871	0.87	11	15	87	6.13	4.7	1055	0.84	11	12.3	91	8.51	5.85	1464	1.17	28
1300	2.16	28	50	16.7	80	7.44	4.82	1280	1.28	21	14.8	86	8.75	5.63	1505	1.2	20	12.3	91	10.9	6.7	1868	1.5	43
1300	2.16	30	50	17.2	80	9.36	5.43	1609	1.61	31	14.9	86	11.1	6.39	1903	1.52	30							
1300	2.16	32	50	17.8	79	11.2	5.95	1927	1.93	42	15.3	86	13.2	7	2266	1.81	40							

Tw5 - 12°C																								
Pa m³/h	Va m/s	Tia °C	Ur %	3R							4R							6R						
				Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa
800	1.33	22	50	13.3	87	2.33	2.33	401	0.4	3	12.3	91	2.72	2.6	468	0.37	3	10.2	95	3.82	3.17	657	0.53	7
800	1.33	24	50	14.1	86	3.16	2.63	544	0.54	5	12.5	91	3.83	3.06	659	0.53	5	9.9	95	5.2	3.74	895	0.72	12
800	1.33	26	50	14.2	85	4.44	3.11	764	0.76	8	12.4	91	5.22	3.59	898	0.72	8	9.6	94	6.68	4.32	1149	0.92	19
800	1.33	28	50	14.2	85	5.88	3.62	1011	1.01	14	12.2	90	6.75	4.14	1162	0.93	13	9.4	94	8.2	4.87	1410	1.13	27
800	1.33	30	50	14.3	84	7.34	4.1	1263	1.26	20	12	90	8.35	4.68	1436	1.15	18	9.3	94	9.75	5.4	1677	1.34	36
800	1.33	32	50	14.5	84	8.81	4.54	1515	1.52	28	11.9	90	9.97	5.19	1715	1.37	25	9.3	94	11.3	5.88	1945	1.56	47
900	1.49	22	50	13.6	85	2.52	2.52	434	0.43	3	12.5	90	2.92	2.84	503	0.4	3	10.4	94	4.2	3.5	723	0.58	8
900	1.49	24	50	14.3	84	3.46	2.89	596	0.6	5	12.7	90	4.21	3.37	724	0.58	6	10.1	94	5.77	4.15	992	0.79	14
900	1.49	26	50	14.4	84	4.95	3.44	851	0.85	10	12.6	90	5.81	3.98	1000	0.8	10	9.8	94	7.46	4.81	1284	1.03	23
900	1.49	28	50	14.4	83	6.55	4	1126	1.13	17	12.4	89	7.55	4.61	1298	1.04	15	9.6	93	9.14	5.42	1573	1.26	32
900	1.49	30	50	14.5	83	8.16	4.53	1403	1.4	25	12.3	89	9.31	5.2	1601	1.28	22	9.5	93	10.9	6	1868	1.5	44
900	1.49	32	50	15	82	9.62	4.95	1655	1.66	33	12.3	88	11.1	5.74	1902	1.52	30							
1000	1.66	22	50	13.9	83	2.71	2.71	467	0.47	4	12.8	90	3.12	3.08	536	0.43	3	10.5	93	4.6	3.83	791	0.63	10
1000	1.66	24	50	14.6	83	3.77	3.14	649	0.65	6	12.9	89	4.59	3.68	790	0.63	6	10.2	93	6.39	4.57	1099	0.88	17
1000	1.66	26	50	14.6	83	5.46	3.77	939	0.94	12	12.7	89	6.42	4.37	1104	0.88	12	10	93	8.23	5.29	1415	1.13	27
1000	1.66	28	50	14.6	82	7.21	4.38	1240	1.24	20	12.6	88	8.33	5.06	1434	1.15	18	9.8	92	10.1	5.96	1733	1.39	38
1000	1.66	30	50	14.9	82	8.9	4.92	1530	1.53	29	12.5	88	10.3	5.7	1763	1.41	26	9.9	92	11.9	6.55	2039	1.63	51
1000	1.66	32	50	15.5	81	10.4	5.34	1789	1.79	38	12.7	87	12	6.22	2068	1.66	35							
1100	1.82	22	50	14.1	82	2.9	2.9	499	0.5	4	13	89	3.31	3.3	569	0.46	4	10.7	93	5	4.17	860	0.69	11
1100	1.82	24	50	14.7	82	4.1	3.39	705	0.71	7	13.1	88	4.99	3.99	859	0.69	8	10.3	92	6.99	4.99	1202	0.96	20
1100	1.82	26	50	14.7	82	5.97	4.09	1027	1.03	14	12.9	88	7.03	4.76	1210	0.97	14	10.1	92	8.99	5.76	1546	1.24	31
1100	1.82	28	50	14.8	81	7.86	4.75	1352	1.35	23	12.7	87	9.11	5.51	1567	1.25	21	10	92	11	6.48	1887	1.51	45
1100	1.82	30	50	15.3	81	9.53	5.27	1640	1.64	32	12.8	87	11.1	6.17	1913	1.53	30							
1100	1.82	32	50	15.9	80	11.2	5.72	1918	1.92	42	13.2	87	13	6.7	2227	1.78	40							
1200	1.99	22	50	14.3	81	3.09	3.09	531	0.53	4	12.7	90	3.71	3.71	639	0.51	4	10.8	92	5.41	4.5	930	0.74	13
1200	1.99	24	50	14.8	82	4.44	3.65	764	0.76	8	13.2	87	5.41	4.3	930	0.74	9	10.5	92	7.59	5.4	1305	1.04	23
1200	1.99	26	50	14.9	81	6.49	4.41	1116	1.12	16	13	87	7.65	5.15	1316	1.05	16	10.3	91	9.74	6.23	1676	1.34	36
1200	1.99	28	50	15	80	8.49	5.1	1461	1.46	26	12.9	86	9.87	5.94	1699	1.36	25	10.3	91	11.8	6.95	2026	1.62	50
1200	1.99	30	50	15.6	80	10.2	5.61	1745	1.75	36	13.1	86	11.9	6.59	2045	1.64	34							
1200	1.99	32	50	16.3	79	11.9	6.09	2043	2.04	47	13.6	86	13.9	7.16	2383	1.91	45							
1300	2.16	22	50	14.5	80	3.27	3.27	563	0.56	5	12.9	89	3.94	3.94	679	0.54	5	10.9	91	5.82	4.84	1002	0.8	15
1300	2.16	24	50	15	81	4.79	3.9	824	0.82	10	13.3	87	5.84	4.61	1004	0.8	10	10.6	91	8.18	5.8	1407	1.13	27
1300	2.16	26	50	15	80	7	4.72	1203	1.2	19	13.1	86	8.26	5.53	1421	1.14	18	10.4	90	10.5	6.69	1803	1.44	41
1300	2.16	28	50	15.3	79	9.02	5.41	1551	1.55	29	13	85	10.6	6.37	1828	1.46	28							
1300	2.16	30	50	16	79	10.7	5.94	1848	1.85	40	13.4	85	12.6	7	2172	1.74	38							
1300	2.16	32	50	16.7	79	12.6	6.44	2165	2.17	52	13.9	85	14.7	7.6	2533	2.03	50							

UT3 - BATTERIA DI RAFFREDDAMENTO AD ACQUA

UT3 - WATER COOLING COILSUT

Tw 7 - 12°C																															
Pa m³/h	Va m/s	Tia °C	Ur %	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa
1050	1.34	22	50	14.9	78	2.49	2.49	428	0.34	2	12.9	89	3.18	3.18	548	0.44	4	11.3	99	3.75	3.75	646	0.43	5							
1050	1.34	24	50	15.3	86	3.02	3.02	519	0.42	3	13.6	91	4.05	3.62	697	0.56	6	12	95	5.16	4.2	888	0.59	9							
1050	1.34	26	50	15.9	86	4.25	3.48	731	0.58	5	13.2	91	6.14	4.42	1056	0.85	13	11.5	95	7.26	5.01	1249	0.83	16							
1050	1.34	28	50	15.8	85	6.27	4.2	1079	0.86	10	12.9	91	8.25	5.18	1420	1.14	22	11.2	95	9.36	5.78	1610	1.07	24							
1050	1.34	30	50	15.7	85	8.35	4.88	1436	1.15	16	12.8	90	10.3	5.87	1772	1.42	32	11	94	11.5	6.49	1970	1.31	35							
1050	1.34	32	50	15.8	84	10.4	5.49	1781	1.43	24	13.1	90	12.2	6.42	2090	1.67	42	11	94	13.5	7.13	2320	1.55	46							
1200	1.53	22	50	15.2	76	2.72	2.72	467	0.37	2	13.2	87	3.53	3.53	608	0.49	5	11.6	97	4.19	4.19	721	0.48	6							
1200	1.53	24	50	15.7	84	3.32	3.32	572	0.46	3	13.8	90	4.57	4.07	787	0.63	8	12.1	94	5.84	4.74	1004	0.67	11							
1200	1.53	26	50	16.1	84	4.8	3.9	826	0.66	6	13.4	90	7	5	1205	0.96	16	11.7	94	8.24	5.67	1417	0.95	19							
1200	1.53	28	50	16	84	7.15	4.73	1229	0.98	13	13.1	89	9.35	5.84	1608	1.29	27	11.4	94	10.6	6.53	1825	1.22	30							
1200	1.53	30	50	16	83	9.43	5.47	1622	1.3	20	13.3	89	11.5	6.53	1969	1.58	38	11.3	93	12.9	7.3	2218	1.48	43							
1200	1.53	32	50	16.4	83	11.4	6.06	1966	1.57	29	13.6	89	13.5	7.14	2324	1.86	51														
1350	1.72	22	50	15.5	75	2.94	2.94	505	0.4	3	13.4	86	3.88	3.88	668	0.53	6	11.8	96	4.62	4.62	795	0.53	7							
1350	1.72	24	50	15.9	83	3.63	3.63	624	0.5	4	13.9	89	5.13	4.52	882	0.71	9	12.2	93	6.53	5.28	1124	0.75	13							
1350	1.72	26	50	16.3	83	5.39	4.32	927	0.74	8	13.5	89	7.87	5.56	1353	1.08	20	11.8	93	9.23	6.32	1588	1.06	24							
1350	1.72	28	50	16.2	82	8.01	5.24	1378	1.1	15	13.4	88	10.4	6.47	1788	1.43	32	11.6	93	11.8	7.27	2035	1.36	37							
1350	1.72	30	50	16.3	82	10.4	6.03	1795	1.44	24	13.7	88	12.6	7.16	2158	1.73	45	11.7	92	14.2	8.05	2444	1.63	51							
1350	1.72	32	50	16.9	82	12.5	6.61	2143	1.72	33																					
1500	1.92	22	50	15.7	74	3.16	3.16	543	0.43	3	13.6	85	4.23	4.23	728	0.58	7	11.9	95	5.05	5.05	869	0.58	8							
1500	1.92	24	50	16.1	82	3.93	3.93	677	0.54	4	14	88	5.7	4.97	980	0.78	11	12.3	92	7.24	5.82	1245	0.83	16							
1500	1.92	26	50	16.4	82	6.01	4.74	1033	0.83	9	13.6	88	8.72	6.12	1500	1.2	24	11.9	92	10.2	6.96	1755	1.17	28							
1500	1.92	28	50	16.3	81	8.86	5.74	1524	1.22	18	13.7	87	11.3	7.01	1935	1.55	37	11.8	92	12.9	7.95	2226	1.49	43							
1500	1.92	30	50	16.7	81	11.3	6.5	1935	1.55	28	14.1	87	13.6	7.76	2340	1.87	52														
1500	1.92	32	50	17.3	81	13.5	7.13	2313	1.85	38																					
1650	2.11	22	50	15.9	73	3.37	3.37	580	0.46	3	13.7	84	4.58	4.58	789	0.63	8	12.1	94	5.48	5.48	943	0.63	10							
1650	2.11	24	50	16.3	81	4.24	4.24	730	0.58	5	14.1	87	6.3	5.43	1084	0.87	13	12.4	92	7.94	6.35	1366	0.91	18							
1650	2.11	26	50	16.5	81	6.64	5.16	1142	0.91	11	13.8	87	9.56	6.66	1644	1.32	28	12.1	91	11.2	7.59	1919	1.28	33							
1650	2.11	28	50	16.5	80	9.68	6.22	1665	1.33	21	14	86	12.1	7.54	2079	1.66	42	12.1	91	14	8.59	2402	1.6	49							
1650	2.11	30	50	17	80	12	6.96	2070	1.66	31																					
1650	2.11	32	50	17.7	80	14.4	7.63	2476	1.98	43																					
1800	2.3	22	50	16	73	3.59	3.59	618	0.49	4	13.8	84	4.94	4.94	849	0.68	9	12.2	93	5.91	5.91	1017	0.68	11							
1800	2.3	24	50	16.4	80	4.55	4.55	782	0.63	6	14.2	86	6.91	5.88	1188	0.95	16	12.5	91	8.67	6.88	1491	0.99	21							
1800	2.3	26	50	16.6	80	7.27	5.58	1251	1	13	13.9	86	10.3	7.17	1774	1.42	32	12.2	90	12.1	8.2	2080	1.39	38							
1800	2.3	28	50	16.7	79	10.4	6.67	1794	1.44	24	14.3	85	12.9	8.06	2218	1.78	47														
1800	2.3	30	50	17.4	79	12.8	7.4	2199	1.76	35																					
1800	2.3	32	50	18.1	79	15.3	8.11	2634	2.11	48																					

Tw 5 - 12°C																											
Pa m³/h	Va m/s	Tia °C	Ur %	3R							4R							6R									
				Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa			
1050	1.34	22	50	13.5	86	2.99	2.99	514	0.41	3	11.8	91	4	3.59	687	0.55	6	10.1	95	5.07	4.18	873	0.58	8			
1050	1.34	24	50	14.2	86	4.1	3.43	704	0.56	5	11.5	91	5.88	4.36	1010	0.81	12	9.7	95	6.99	4.98	1203	0.8	15			
1050	1.34	26	50	14.1	85	5.91	4.11	1016	0.81	9	11.2	90	7.86	5.12	1351	1.08	20	9.4	94	8.96	5.75	1541	1.03	23			
1050	1.34	28	50	14.1	84	7.84	4.79	1348	1.08	15	11.1	90	9.8	5.83	1686	1.35	29	9.2	94	10.9	6.47	1880	1.25	32			
1050	1.34	30	50	14.1	84	9.76	5.42	1679	1.34	22	11.2	90	11.7	6.43	2005	1.61	40	9.1	94	12.9	7.15	2226	1.49	44			
1050	1.34	32	50	14.4	83	11.6	5.96	1992	1.59	30	11.5	89	13.5	6.97	2319	1.86	51										
1200	1.53	22	50	13.8	84	3.28	3.28	565	0.45	3	12	90	4.48	4.02	771	0.62	7	10.3	94	5.71	4.71	983	0.66	10			
1200	1.53	24	50	14.4	84	4.59	3.82	789	0.63	6	11.6	89	6.69	4.93	1151	0.92	15	9.9	94	7.94	5.63	1365	0.91	18			
1200	1.53	26	50	14.3	83	6.71	4.62	1155	0.92	11	11.4	89	8.91	5.78	1532	1.23	25	9.6	93	10.2	6.49	1747	1.17	28			
1200	1.53	28	50	14.3	83	8.87	5.38	1526	1.22	19	11.4	89	11	6.54	1898	1.52	36	9.4	93	12.4	7.3	2128	1.42	40			
1200	1.53	30	50	14.5	82	11	6.06	1886	1.51	27	11.7	88	13	7.15	2230	1.78	48	9.5	93	14.5	8	2492	1.66	53			
1200	1.53	32	50	15.1	82	12.8	6.57	2201	1.76	35																	
1350	1.72	22	50	14.1	82	3.57	3.57	615	0.49	4	12.1	89	4.99	4.46	859	0.69	9	10.4	93	6.37	5.24	1096	0.73	13			
1350	1.72	24	50	14.6	83	5.11	4.22	879	0.7	7	11.8	88	7.51	5.48	1292	1.03	18	10	93	8.88	6.27	1527	1.02	23			
1350	1.72	26	50	14.5	82	7.52	5.13	1294	1.04	14	11.6	88	9.93	6.41	1708	1.37	30	9.8	92	11.3	7.23	1949	1.3	34			
1350	1.72	28	50	14.6	82	9.87	5.95	1698	1.36	22	11.8	87	12.1	7.16	2080	1.66	43	9.7	92	13.7	8.07	2356	1.57	48			
1350	1.72	30	50	15	81	12	6.6	2055	1.64	31																	
1350	1.72	32	50	15.6	81	14	7.16	2401	1.92	41																	
1500	1.92	22	50	14.3	81	3.86	3.86	665	0.53	4	12.2	88	5.53	4.9	950	0.76	11	10.5	92	7.05	5.77	1212	0.81	15			
1500	1.92	24	50	14.7	82	5.67	4.63	975	0.78	8	11.9	87	8.32	6.03	1431	1.15	22	10.1	92	9.81	6.91	1688	1.13	27			
1500	1.92	26	50	14.6	81	8.33	5.62	1432	1.15	17	11.8	87	10.9	7.02	1878	1.5	36	10	91	12.5	7.94	2147	1.43	41			
1500	1.92	28	50	14.8	80	10.9	6.49	1865	1.49	26	12.2	86	13.1	7.77	2255	1.81	49	10.1	91	14.9	8.8	2567	1.71	56			
1500	1.92	30	50	15.4	80	12.9	7.11	2217	1.77	36																	
1500	1.92	32	50	16.1	80	15.1	7.72	2593	2.08	47																	
1650	2.11	22	50	14.5	80	4.15	4.15	714	0.57	5	12.3	87	6.09	5.34	1047	0.84	13	10.6	91	7.71	6.29	1327	0.89	18			
1650	2.11	24	50	14.8	81	6.24	5.03	1074	0.86	10	12	86	9.11	6.56	1567	1.25	26	10.3	91	10.7	7.53	1846	1.23	31			
1650	2.11	26	50	14.8	80	9.11	6.1	1568	1.25	19	12.1	86	11.7	7.54	2016	1.61	40	10.2	91	13.5	8.6	2328	1.55	47			
1650	2.11	28	50	15.1	79	11.6	6.95	1995	1.6	30																	
1650	2.11	30	50	15.8	79	13.8	7.61	2374	1.9	40																	
1650	2.11	32	50	16.5	79	16.2	8.26	2778	2.22	53																	
1800	2.3	22	50	14.6	80	4.45	4.45	765	0.61	6	12.4	86	6.66	5.78	1146	0.92	15	10.7	91	8.41	6.81	1447	0.97	20			
1800	2.3	24	50	14.9	80	6.83	5.43	1175	0.94	12	12.1	85	9.89	7.09	1701	1.36	30	10.4	90	11.6	8.14	2002	1.34	36			
1800	2.3	26	50	14.9	79	9.89	6.57	1702	1.36	22	12.4	85	12.5	8.06	2151	1.72	45	10.5	90	14.5	9.22	2494	1.66	53			
1800	2.3	28	50	15.5	79	12.3	7.39	2120	1.7	33																	
1800	2.3	30	50	16.2	78	14.7	8.09	2525	2.02	45																	
1800	2.3	32	50																								

UT4 - BATTERIA DI RAFFREDDAMENTO AD ACQUA

UT4 - WATER COOLING COILSUT

Tw7 - 12°C																								
Pa m³/h	Va m/s	Tia °C	Ur %	3R							4R							6R						
				Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa
1200	1.24	22	50	14.4	81	3.05	3.05	524	0.35	2	13	88	3.59	3.59	618	0.31	2	11.2	99	4.36	4.32	751	0.38	4
1200	1.24	24	50	14.8	89	3.66	3.66	629	0.42	3	14	92	4.15	3.98	715	0.36	2	12	96	5.86	4.8	1007	0.5	6
1200	1.24	26	50	15.5	86	5.22	4.15	898	0.6	6	14.2	92	5.98	4.67	1029	0.51	4	11.7	95	8.12	5.67	1397	0.7	11
1200	1.24	28	50	15.5	86	7.43	4.93	1277	0.85	11	14	92	8.27	5.49	1422	0.71	8	11.3	95	10.5	6.55	1808	0.9	18
1200	1.24	30	50	15.4	85	9.74	5.69	1675	1.12	17	13.8	91	10.8	6.34	1852	0.93	12	11.1	95	13	7.38	2228	1.11	26
1200	1.24	32	50	15.5	85	12.1	6.4	2075	1.38	25	13.6	91	13.3	7.15	2294	1.15	18	10.9	95	15.4	8.17	2656	1.33	35
1400	1.45	22	50	14.8	79	3.37	3.37	580	0.39	3	13.5	85	3.97	3.97	683	0.34	2	11.5	98	4.93	4.93	848	0.42	5
1400	1.45	24	50	15.2	86	4.08	4.08	702	0.47	4	14.4	91	4.56	4.47	784	0.39	3	12.2	95	6.66	5.48	1146	0.57	8
1400	1.45	26	50	15.8	85	5.97	4.71	1027	0.68	7	14.5	91	6.78	5.32	1167	0.58	6	11.9	94	9.32	6.51	1603	0.8	15
1400	1.45	28	50	15.7	84	8.58	5.63	1475	0.98	14	14.2	90	9.55	6.31	1643	0.82	10	11.6	94	12.2	7.54	2090	1.05	23
1400	1.45	30	50	15.8	84	11.2	6.49	1926	1.29	22	14	90	12.5	7.29	2144	1.07	16	11.4	94	15	8.5	2571	1.29	33
1400	1.45	32	50	16.1	83	13.6	7.19	2335	1.56	31	13.9	89	15.4	8.2	2646	1.32	23	11.4	94	17.7	9.35	3041	1.52	45
1600	1.66	22	50	15.1	77	3.69	3.69	634	0.42	3	13.9	83	4.35	4.35	748	0.37	3	11.7	96	5.48	5.48	943	0.47	6
1600	1.66	24	50	15.5	85	4.5	4.5	775	0.52	4	14.7	90	4.96	4.95	853	0.43	3	12.4	94	7.49	6.17	1288	0.64	10
1600	1.66	26	50	16	84	6.75	5.28	1161	0.77	9	14.7	89	7.63	5.96	1312	0.66	7	12	93	10.6	7.38	1827	0.91	18
1600	1.66	28	50	15.9	83	9.72	6.32	1672	1.12	17	14.4	89	10.9	7.12	1868	0.93	13	11.7	93	13.8	8.52	2368	1.18	29
1600	1.66	30	50	16.1	82	12.6	7.24	2160	1.44	27	14.2	88	14.1	8.21	2430	1.22	20	11.6	93	16.9	9.56	2899	1.45	41
1600	1.66	32	50	16.7	82	15	7.93	2576	1.72	37	14.3	88	17.2	9.17	2964	1.48	28							
1600	1.87	22	50	15.4	76	4	4	688	0.46	4	14.2	82	4.72	4.72	811	0.41	3	12	94	6.03	6.03	1038	0.52	7
1800	1.87	24	50	15.8	83	4.92	4.92	847	0.56	5	14.4	91	5.72	5.72	984	0.49	4	12.5	93	8.33	6.85	1434	0.72	12
1800	1.87	26	50	16.2	82	7.56	5.84	1301	0.87	11	14.9	88	8.51	6.61	1463	0.73	8	12.2	92	11.9	8.22	2043	1.02	22
1800	1.87	28	50	16.1	82	10.8	6.99	1865	1.24	21	14.6	88	12.2	7.92	2095	1.05	15	11.9	92	15.4	9.47	2641	1.32	35
1800	1.87	30	50	16.5	81	13.7	7.88	2350	1.57	31	14.4	87	15.8	9.11	2711	1.36	24	12	92	18.6	10.5	3191	1.6	48
1800	1.87	32	50	17.2	81	16.3	8.64	2806	1.87	43	14.7	87	18.9	10	3246	1.62	33							
2000	2.07	22	50	15.6	75	4.3	4.3	740	0.49	4	14.4	81	5.08	5.08	873	0.44	3	12.2	93	6.57	6.57	1131	0.57	8
2000	2.07	24	50	16	82	5.34	5.34	919	0.61	6	14.7	89	6.2	6.2	1067	0.53	5	12.7	92	9.2	7.53	1583	0.79	14
2000	2.07	26	50	16.3	81	8.4	6.4	1444	0.96	13	15	87	9.44	7.26	1623	0.81	10	12.3	91	13.1	9.04	2257	1.13	26
2000	2.07	28	50	16.3	80	11.9	7.64	2054	1.37	25	14.7	87	13.5	8.7	2319	1.16	18	12.2	91	16.8	10.4	2897	1.45	41
2000	2.07	30	50	16.9	80	14.7	8.5	2532	1.69	36	14.8	86	17.2	9.92	2956	1.48	28							
2000	2.07	32	50	17.6	80	17.6	9.31	3027	2.02	49	15.2	86	20.5	10.9	3519	1.76	38							
2000	2.28	22	50	15.7	74	4.61	4.61	793	0.53	5	14.6	80	5.44	5.44	935	0.47	4	12.3	92	7.12	7.12	1224	0.61	9
2200	2.28	24	50	16.1	81	5.76	5.76	990	0.66	7	14.8	88	6.69	6.69	1150	0.58	5	12.8	91	10.1	8.21	1735	0.87	17
2200	2.28	26	50	16.4	80	9.23	6.95	1588	1.06	16	15.1	86	10.4	7.92	1787	0.89	12	12.4	91	14.4	9.85	2468	1.23	31
2200	2.28	28	50	16.6	79	12.8	8.2	2209	1.47	28	14.9	86	14.8	9.47	2539	1.27	22	12.5	90	18.2	11.2	3123	1.56	47
2200	2.28	30	50	17.3	79	15.7	9.1	2708	1.81	40	15.1	85	18.5	10.7	3173	1.59	32							
2200	2.28	32	50								15.6	85	22	11.7	3781	1.89	44							

Tw5 - 12°C																										
Pa m³/h	Va m/s	Tia °C	Ur %	3R							4R							6R								
				Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa		Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa		Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa
1200	1.24	22	50	13.3	87	3.5	3.47	602	0.4	3		12.1	92	4.19	3.97	720	0.36	2		10	95	5.8	4.8	998	0.5	6
1200	1.24	24	50	13.7	86	5.06	4.1	870	0.58	6		12.3	92	5.84	4.64	1004	0.5	4		9.8	95	7.86	5.64	1351	0.68	11
1200	1.24	26	50	13.8	86	7.03	4.84	1210	0.81	10		12.3	91	7.88	5.42	1355	0.68	7		9.6	95	10.1	6.51	1732	0.87	17
1200	1.24	28	50	13.8	85	9.18	5.6	1579	1.05	16		12.1	91	10.2	6.25	1750	0.88	11		9.3	95	12.4	7.34	2124	1.06	24
1200	1.24	30	50	13.8	85	11.4	6.32	1955	1.3	23		11.9	91	12.6	7.07	2163	1.08	17		9.1	95	14.7	8.14	2527	1.26	33
1200	1.24	32	50	14.1	84	13.5	6.96	2325	1.55	31		11.8	90	15	7.84	2586	1.29	23		9	94	17.1	8.91	2943	1.47	43
1400	1.45	22	50	13.4	86	4.04	4.04	696	0.46	4		12.5	91	4.6	4.46	791	0.4	3		10.3	94	6.57	5.47	1130	0.57	8
1400	1.45	24	50	14	85	5.72	4.63	985	0.66	7		12.7	90	6.58	5.26	1132	0.57	5		10.1	94	9.04	6.48	1554	0.78	14
1400	1.45	26	50	14	84	8.1	5.53	1393	0.93	13		12.5	90	9.06	6.21	1558	0.78	9		9.8	94	11.6	7.49	1999	1	22
1400	1.45	28	50	14.1	83	10.6	6.39	1816	1.21	20		12.3	90	11.8	7.18	2022	1.01	15		9.6	94	14.3	8.45	2452	1.23	31
1400	1.45	30	50	14.2	83	13	7.19	2239	1.49	29		12.2	89	14.5	8.11	2496	1.25	21		9.5	93	16.9	9.36	2914	1.46	42
1400	1.45	32	50	14.8	83	15.2	7.8	2611	1.74	38		12.2	89	17.3	8.98	2976	1.49	29								
1600	1.66	22	50	13.7	84	4.45	4.45	765	0.51	4		12.8	90	4.99	4.92	858	0.43	3		10.5	93	7.36	6.14	1265	0.63	10
1600	1.66	24	50	14.3	83	6.44	5.18	1108	0.74	9		12.9	89	7.35	5.88	1264	0.63	6		10.2	93	10.2	7.32	1759	0.88	17
1600	1.66	26	50	14.2	83	9.17	6.2	1578	1.05	16		12.7	89	10.3	7	1766	0.88	12		10	93	13.2	8.46	2265	1.13	27
1600	1.66	28	50	14.4	82	11.9	7.15	2048	1.37	25		12.6	88	13.3	8.1	2294	1.15	18		9.8	92	16.1	9.53	2773	1.39	38
1600	1.66	30	50	14.8	82	14.4	7.92	2470	1.65	35		12.5	88	16.4	9.12	2821	1.41	26		9.9	92	19	10.5	3263	1.63	51
1600	1.66	32	50	15.4	81	16.8	8.6	2884	1.92	45		12.7	87	19.2	9.96	3308	1.66	35								
1800	1.87	22	50	13.9	83	4.85	4.85	834	0.56	5		12.6	91	5.66	5.66	974	0.49	4		10.7	93	8.16	6.8	1403	0.7	12
1800	1.87	24	50	14.4	82	7.19	5.72	1236	0.82	10		13.1	88	8.15	6.5	1402	0.7	8		10.4	92	11.4	8.14	1964	0.98	21
1800	1.87	26	50	14.4	81	10.2	6.86	1762	1.18	19		12.9	87	11.5	7.78	1978	0.99	14		10.1	92	14.7	9.41	2526	1.26	33
1800	1.87	28	50	14.7	81	13.2	7.87	2265	1.51	30		12.8	87	14.9	8.99	2560	1.28	22		10.1	91	17.9	10.6	3076	1.54	46
1800	1.87	30	50	15.3	80	15.7	8.63	2690	1.79	40		12.9	87	18.1	10	3114	1.56	31								
1800	1.87	32	50	15.9	80	18.3	9.36	3145	2.1	53		13.3	86	21.1	10.9	3627	1.81	41								
2000	2.07	22	50	14.1	82	5.25	5.25	903	0.6	6		12.8	89	6.13	6.13	1054	0.53	5		10.8	92	8.98	7.47	1545	0.77	14
2000	2.07	24	50	14.6	81	7.95	6.26	1368	0.91	12		13.3	87	8.99	7.12	1546	0.77	9		10.5	91	12.6	8.96	2169	1.09	25
2000	2.07	26	50	14.6	80	11.3	7.5	1940	1.29	23		13	86	12.7	8.55	2190	1.1	17		10.3	91	16.2	10.3	2783	1.39	39
2000	2.07	28	50	15.1	80	14.2	8.48	2440	1.63	34		13	86	16.4	9.85	2822	1.41	26		10.5	91	19.5	11.5	3349	1.68	53
2000	2.07	30	50	15.7	79	16.9	9.3	2902	1.94	46		13.3	85	19.6	10.9	3374	1.69	36								
2000	2.07	32	50									13.7	85	22.9	11.8	3934	1.97	47								
2200	2.28	22	50	14.3	81	5.65	5.65	972	0.65	7		13	88	6.59	6.59	1134	0.57	5		11	91	9.79	8.12	1685	0.84	16
2200	2.28	24	50	14.7	80	8.73	6.8	1501	1	14		13.4	86	9.86	7.75	1696	0.85	11		10.6	90	13.8	9.76	2372	1.19	29
2200	2.28	26	50	14.8	79	12.3	8.12	2116	1.41	26		13.2	85	14	9.3	2399	1.2	20		10.5	90	17.6	11.2	3027	1.51	45
2200	2.28	28	50	15.4	79	15.2	9.07	2609	1.74	38		13.2	85	17.8	10.7	3060	1.53	30								
2200	2.28	30	50	16.1	78	18.1	9.94	3105	2.07	52		13.7	85	21.1	11.7	3626	1.81	41								
2000	2.28	32	50																							

UT5 - BATTERIA DI RAFFREDDAMENTO AD ACQUA
UT5 - WATER COOLING COILSUT

Tw 7 - 12°C																											
Pa m³/h	Va m/s	Tia °C	Ur %	3R							4R							6R									
				Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa			
1500	1.2	22	50	14.6	80	3.71	3.71	639	0.32	2	12.7	90	4.67	4.67	804	0.4	3	11.4	98	5.3	5.3	912	0.3	2			
1500	1.2	24	50	15	87	4.46	4.46	767	0.38	2	13.4	92	5.89	5.26	1014	0.51	5	12.5	96	6.65	5.73	1143	0.38	3			
1500	1.2	26	50	15.7	87	6.17	5.08	1062	0.53	4	13.1	92	8.81	6.38	1516	0.76	11	12.3	96	9.33	6.77	1605	0.54	6			
1500	1.2	28	50	15.6	86	9	6.08	1548	0.77	8	12.8	92	11.9	7.48	2041	1.02	18	12	96	12.4	7.88	2129	0.71	9			
1500	1.2	30	50	15.5	86	12	7.08	2066	1.03	14	12.6	91	14.9	8.5	2558	1.28	26	11.6	95	15.6	8.98	2676	0.89	14			
1500	1.2	32	50	15.5	85	15	7.99	2580	1.29	20	12.7	91	17.7	9.38	3051	1.53	36	11.3	95	18.8	10	3234	1.08	20			
1750	1.4	22	50	15	77	4.09	4.09	704	0.35	2	13	88	5.26	5.26	905	0.45	4	11.9	95	5.92	5.92	1018	0.34	3			
1750	1.4	24	50	15.4	85	4.97	4.97	856	0.43	3	13.7	91	6.72	6	1156	0.58	7	12.8	95	7.45	6.51	1281	0.43	4			
1750	1.4	26	50	16	85	7.05	5.77	1212	0.61	5	13.3	91	10.2	7.34	1759	0.88	14	12.5	95	10.7	7.77	1843	0.61	7			
1750	1.4	28	50	15.9	85	10.5	6.96	1797	0.9	11	13	90	13.7	8.6	2360	1.18	23	12.1	94	14.3	9.1	2466	0.82	12			
1750	1.4	30	50	15.8	84	13.9	8.09	2386	1.19	18	13	90	17	9.71	2929	1.47	34	11.8	94	18	10.4	3100	1.03	18			
1750	1.4	32	50	16	84	17.1	9.06	2937	1.47	25	13.2	90	20.1	10.6	3454	1.73	45	11.6	94	21.7	11.5	3739	1.25	25			
2000	1.6	22	50	15.3	76	4.46	4.46	768	0.38	2	13.3	87	5.84	5.84	1005	0.5	5	12.2	93	6.55	6.55	1126	0.38	3			
2000	1.6	24	50	15.7	83	5.48	5.48	943	0.47	3	13.8	90	7.61	6.75	1308	0.65	8	13	94	8.25	7.28	1419	0.47	5			
2000	1.6	26	50	16.2	84	7.99	6.46	1374	0.69	7	13.4	89	11.7	8.3	2007	1	17	12.7	94	12.1	8.78	2088	0.7	9			
2000	1.6	28	50	16	83	11.9	7.84	2046	1.02	13	13.2	89	15.5	9.69	2672	1.34	29	12.3	93	16.3	10.3	2803	0.94	15			
2000	1.6	30	50	16.1	83	15.7	9.07	2692	1.35	22	13.4	89	18.9	10.8	3253	1.63	40	12	93	20.4	11.7	3516	1.17	23			
2000	1.6	32	50	16.5	82	18.9	9.99	3241	1.62	30								11.8	93	24.6	13	4232	1.41	31			
2250	1.8	22	50	15.6	75	4.83	4.83	831	0.42	3	13.5	86	6.42	6.42	1105	0.55	6	12.5	91	7.16	7.16	1232	0.41	4			
2250	1.8	24	50	16	82	5.99	5.99	1031	0.52	4	14	89	8.55	7.5	1470	0.74	10	13.2	93	9.08	8.05	1562	0.52	5			
2250	1.8	26	50	16.3	83	8.99	7.17	1546	0.77	8	13.5	88	13.1	9.24	2253	1.13	21	12.8	93	13.6	9.79	2340	0.78	11			
2250	1.8	28	50	16.2	82	13.3	8.69	2292	1.15	16	13.5	88	17.2	10.7	2949	1.48	34	12.4	93	18.3	11.5	3141	1.05	19			
2250	1.8	30	50	16.4	82	17.2	9.93	2958	1.48	26	13.9	87	20.7	11.8	3563	1.78	47	12.2	92	22.8	13	3926	1.31	28			
2250	1.8	32	50	17	81	20.5	10.9	3532	1.77	35								12.3	92	27.1	14.4	4665	1.56	37			
2500	2	22	50	15.8	74	5.19	5.19	894	0.45	3	13.6	85	7.01	7.01	1206	0.6	7	12.7	90	7.77	7.77	1337	0.45	4			
2500	2	24	50	16.2	81	6.5	6.5	1118	0.56	5	14.1	88	9.52	8.26	1637	0.82	12	13.4	92	9.95	8.82	1712	0.57	6			
2500	2	26	50	16.5	82	10	7.87	1725	0.86	10	13.7	87	14.5	10.2	2496	1.25	25	12.9	92	15.1	10.8	2592	0.86	13			
2500	2	28	50	16.4	81	14.7	9.51	2532	1.27	20	13.9	87	18.6	11.6	3194	1.6	39	12.6	92	20.2	12.7	3473	1.16	22			
2500	2	30	50	16.8	80	18.5	10.7	3187	1.59	29								12.4	91	25.1	14.3	4315	1.44	33			
2500	2	32	50	17.5	80	22.2	11.7	3810	1.91	40								12.6	91	29.6	15.6	5083	1.7	43			
2750	2.2	22	50	16	73	5.56	5.56	956	0.48	4	13.7	84	7.59	7.59	1306	0.65	8	12.9	89	8.38	8.38	1442	0.48	5			
2750	2.2	24	50	16.3	80	7.01	7.01	1206	0.6	5	14.1	87	10.5	9.02	1810	0.91	14	13.5	92	10.8	9.58	1859	0.62	7			
2750	2.2	26	50	16.5	81	11.1	8.57	1907	0.95	12	13.8	86	15.8	11	2724	1.36	30	13	91	16.6	11.8	2851	0.95	16			
2750	2.2	28	50	16.6	80	16.1	10.3	2766	1.38	23	14.2	86	19.9	12.5	3429	1.72	44	12.7	91	22.1	13.8	3799	1.27	26			
2750	2.2	30	50	17.2	80	19.8	11.5	3407	1.7	33								12.7	90	27.1	15.4	4657	1.55	37			
2750	2.2	32	50	17.9	79	23.7	12.6	4079	2.04	45								13	90	31.9	16.9	5490	1.83	50			

Tw 5 - 12°C																								
Pa m³/h	Va m/s	Tia °C	Ur %	3R							4R							6R						
				Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa
1500	1.2	22	50	13.2	87	4.43	4.43	761	0.38	2	11.6	92	5.84	5.23	1004	0.5	5	10.6	96	6.64	5.74	1142	0.38	3
1500	1.2	24	50	13.9	87	5.99	5.01	1030	0.52	4	11.3	92	8.46	6.3	1455	0.73	10	10.5	96	9.07	6.74	1559	0.52	6
1500	1.2	26	50	14	86	8.49	5.96	1461	0.73	8	11	91	11.3	7.4	1941	0.97	17	10.2	95	11.8	7.82	2036	0.68	9
1500	1.2	28	50	13.9	86	11.3	6.95	1941	0.97	12	10.9	91	14.1	8.43	2430	1.22	25	9.9	95	14.8	8.9	2544	0.85	13
1500	1.2	30	50	13.9	85	14.1	7.88	2426	1.21	18	10.8	91	17	9.39	2921	1.46	34	9.6	95	17.8	9.95	3068	1.02	18
1500	1.2	32	50	14	85	17	8.74	2916	1.46	25	11	90	19.7	10.2	3384	1.69	44	9.4	95	21	11	3605	1.2	24
1750	1.4	22	50	13.6	85	4.92	4.92	847	0.42	3	11.8	91	6.62	5.95	1138	0.57	7	10.9	95	7.41	6.5	1275	0.43	4
1750	1.4	24	50	14.2	85	6.77	5.67	1164	0.58	5	11.5	90	9.78	7.24	1682	0.84	13	10.7	95	10.4	7.71	1781	0.59	7
1750	1.4	26	50	14.2	84	9.83	6.82	1690	0.85	10	11.3	90	13.1	8.51	2247	1.12	21	10.4	94	13.7	9.01	2352	0.78	11
1750	1.4	28	50	14.1	84	13	7.95	2241	1.12	16	11.1	89	16.3	9.66	2800	1.4	31	10.1	94	17.1	10.3	2943	0.98	17
1750	1.4	30	50	14.2	83	16.2	8.98	2786	1.39	23	11.3	89	19.3	10.6	3314	1.66	42	9.9	94	20.6	11.5	3546	1.18	23
1750	1.4	32	50	14.6	83	19.1	9.83	3286	1.64	31								9.7	94	24.2	12.6	4163	1.39	31
2000	1.6	22	50	13.9	83	5.41	5.41	930	0.47	3	12	90	7.41	6.66	1274	0.64	8	11.1	94	8.19	7.26	1409	0.47	5
2000	1.6	24	50	14.5	84	7.61	6.33	1310	0.66	6	11.7	89	11.2	8.18	1917	0.96	16	10.9	94	11.7	8.69	2010	0.67	9
2000	1.6	26	50	14.4	83	11.2	7.67	1922	0.96	12	11.5	89	14.8	9.58	2546	1.27	27	10.6	93	15.5	10.2	2670	0.89	14
2000	1.6	28	50	14.4	82	14.7	8.91	2534	1.27	20	11.5	88	18.2	10.8	3134	1.57	38	10.3	93	19.4	11.6	3340	1.11	21
2000	1.6	30	50	14.7	82	18.1	9.98	3108	1.56	28	11.9	88	21.4	11.8	3684	1.84	51	10.1	93	23.4	13	4016	1.34	29
2000	1.6	32	50	15.2	82	21.1	10.8	3630	1.82	37								10.1	92	27.3	14.2	4687	1.56	38
2250	1.8	22	50	14.2	82	5.89	5.89	1013	0.51	4	12.2	89	8.31	7.4	1429	0.71	10	11.4	93	8.98	8.01	1545	0.52	5
2250	1.8	24	50	14.6	83	8.51	7	1463	0.73	8	11.8	88	12.5	9.1	2151	1.08	20	11	93	13.1	9.67	2245	0.75	11
2250	1.8	26	50	14.5	82	12.5	8.5	2153	1.08	15	11.7	87	16.5	10.6	2837	1.42	32	10.7	92	17.4	11.4	2989	1	17
2250	1.8	28	50	14.6	81	16.4	9.86	2823	1.41	24	12	87	20	11.8	3434	1.72	45	10.5	92	21.7	12.9	3731	1.24	26
2250	1.8	30	50	15.2	81	19.7	10.9	3386	1.69	33								10.3	92	26	14.4	4476	1.49	35
2250	1.8	32	50	15.8	80	23	11.8	3959	1.98	43								10.6	91	30.1	15.6	5170	1.72	45
2500	2	22	50	14.4	81	6.37	6.37	1097	0.55	5	12.3	88	9.21	8.13	1584	0.79	12	11.5	92	9.8	8.75	1686	0.56	6
2500	2	24	50	14.8	81	9.45	7.67	1625	0.81	9	11.9	87	13.8	10	2380	1.19	24	11.2	92	14.4	10.7	2480	0.83	13
2500	2	26	50	14.7	81	13.9	9.31	2383	1.19	18	12	86	18	11.6	3097	1.55	37	10.8	91	19.2	12.5	3306	1.1	21
2500	2	28	50	14.9	80	17.9	10.7	3072	1.54	28	12.3	86	21.6	12.8	3722	1.86	52	10.6	91	23.9	14.2	4115	1.37	30
2500	2	30	50	15.6	80	21.2	11.7	3653	1.83	38								10.7	91	28.4	15.7	4788	1.63	41
2500	2	32	50	16.3	79	24.9	12.7	4274	2.14	49								11	91	32.8	17	5639	1.88	53
2750	2.2	22	50	14.5	80	6.86	6.86	1180	0.59	5	12.4	87	10.2	8.87	1748	0.87	14	11.7	91	10.7	9.51	1832	0.61	7
2750	2.2	24	50	14.9	80	10.4	8.34	1792	0.9	11	12.1	86	15.2	10.9	2606	1.3	28	11.3	91	15.8	11.6	2725	0.91	15
2750	2.2	26	50	14.9	80	15.2	10.1	2607	1.3	21	12.3	85	19.3	12.5	3324	1.66	42	11	90	21	13.6	3619	1.21	24
2750	2.2	28	50	15.3	79	19.1	11.4	3285	1.64	31								10.8	90	26.1	15.5	4488	1.5	35
2750	2.2	30	50	16	79	22.7	12.5	3910	1.96	42								11.1	90	30.6	16.9	5267	1.76	47
2750	2.2	32	50																					

UT6 - BATTERIA DI RAFFREDDAMENTO AD ACQUA

UT6 - WATER COOLING COILSUT

Tw7 - 12°C				3R							4R							6R						
Pa m³/h	Va m/s	Tia °C	Ur %	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa
2000	1.19	22	50	14.9	78	4.71	4.71	811	0.27	1	13.2	87	5.86	5.86	1008	0.34	2	11.7	96	6.92	6.92	1190	0.3	2
2000	1.19	24	50	15.6	84	5.55	5.55	955	0.32	1	14.1	93	6.78	6.6	1166	0.39	3	12.7	96	8.44	7.48	1452	0.36	3
2000	1.19	26	50	16.4	87	6.95	6.31	1196	0.4	2	13.8	92	10.5	8.03	1810	0.6	6	12.5	96	12.1	8.91	2089	0.52	5
2000	1.19	28	50	16.5	87	10.5	7.57	1808	0.6	4	13.4	92	14.8	9.59	2551	0.85	11	12	96	16.4	10.5	2816	0.7	9
2000	1.19	30	50	16.2	86	14.8	8.99	2545	0.85	8	13	91	19.1	11.1	3286	1.1	17	11.6	95	20.7	12	3564	0.89	13
2000	1.19	32	50	16	86	19.1	10.3	3281	1.09	13	12.9	91	23.3	12.4	4008	1.34	24	11.3	95	25.1	13.4	4316	1.08	19
2400	1.42	22	50	15.5	75	5.19	5.19	893	0.3	1	13.7	85	6.69	6.69	1151	0.38	3	12.2	93	7.86	7.86	1352	0.34	2
2400	1.42	24	50	16.2	81	6.24	6.24	1073	0.36	2	14.4	91	7.75	7.65	1333	0.44	3	13.1	95	9.67	8.71	1663	0.42	3
2400	1.42	26	50	16.8	86	7.93	7.27	1364	0.46	3	14	91	12.6	9.51	2173	0.72	8	12.7	95	14.4	10.5	2478	0.62	7
2400	1.42	28	50	16.7	85	12.6	8.92	2172	0.72	6	13.5	90	17.8	11.4	3059	1.02	15	12.2	94	19.6	12.4	3368	0.84	12
2400	1.42	30	50	16.4	84	17.7	10.6	3047	1.02	11	13.3	90	22.7	13	3902	1.3	23	11.8	94	24.7	14.2	4249	1.06	18
2400	1.42	32	50	16.4	84	22.6	12.1	3888	1.3	17	13.5	89	27.2	14.4	4671	1.56	31	11.6	94	29.8	15.8	5128	1.28	25
2800	1.66	22	50	16	73	5.61	5.61	965	0.32	1	14	83	7.52	7.52	1293	0.43	3	12.6	91	8.84	8.84	1521	0.38	3
2800	1.66	24	50	16.5	79	6.93	6.93	1192	0.4	2	14.6	90	8.81	8.71	1516	0.51	4	13.3	94	10.9	9.93	1882	0.47	4
2800	1.66	26	50	17.1	84	9.02	8.23	1551	0.52	3	14.1	89	14.8	11	2553	0.85	11	12.8	94	16.8	12.2	2887	0.72	9
2800	1.66	28	50	16.8	83	14.9	10.3	2555	0.85	8	13.7	89	20.7	13.1	3554	1.19	19	12.3	93	22.8	14.4	3918	0.98	16
2800	1.66	30	50	16.7	83	20.6	12.2	3539	1.18	14	13.7	88	25.9	14.8	4455	1.49	29	12	93	28.6	16.4	4919	1.23	23
2800	1.66	32	50	16.9	82	25.7	13.7	4421	1.47	21	14.1	88	30.7	16.2	5274	1.76	39	12	93	34.2	18.1	5889	1.47	32
3200	1.9	22	50	16.3	71	6.07	6.07	1045	0.35	2	14.2	82	8.35	8.35	1436	0.48	4	12.8	89	9.81	9.81	1688	0.42	4
3200	1.9	24	50	16.8	78	7.62	7.62	1311	0.44	3	14.8	89	10	9.79	1721	0.57	5	13.5	93	12.3	11.2	2117	0.53	5
3200	1.9	26	50	17.3	83	10.3	9.21	1765	0.59	4	14.2	88	17.1	12.5	2938	0.98	14	12.9	92	19.2	13.8	3306	0.83	12
3200	1.9	28	50	16.9	82	17.1	11.6	2943	0.98	10	13.9	87	23.5	14.8	4035	1.35	24	12.5	92	25.9	16.3	4462	1.12	20
3200	1.9	30	50	16.9	81	23.3	13.6	4012	1.34	18	14.2	87	28.7	16.4	4936	1.65	34	12.3	92	32.4	18.5	5573	1.39	29
3200	1.9	32	50	17.4	81	28.3	15.1	4867	1.62	25	14.6	87	34	18	5851	1.95	46	12.5	92	38.2	20.2	6571	1.64	39
3600	2.14	22	50	16.6	70	6.54	6.54	1125	0.38	2	14.4	81	9.19	9.19	1581	0.53	5	13	88	10.8	10.8	1856	0.46	4
3600	2.14	24	50	17	77	8.32	8.32	1431	0.48	3	14.9	87	11.4	10.9	1952	0.65	7	13.6	92	13.8	12.4	2365	0.59	6
3600	2.14	26	50	17.4	81	11.7	10.2	2009	0.67	5	14.3	87	19.3	13.9	3318	1.11	17	13	91	21.7	15.5	3728	0.93	14
3600	2.14	28	50	17.1	81	19.3	12.9	3325	1.11	13	14.2	86	25.9	16.2	4447	1.48	29	12.6	91	29	18.1	4993	1.25	24
3600	2.14	30	50	17.2	80	25.7	15	4413	1.47	21	14.6	86	31.4	18	5396	1.8	40	12.6	91	35.7	20.3	6135	1.53	34
3600	2.14	32	50	17.9	80	30.8	16.4	5292	1.77	29								12.9	91	42	22.2	7231	1.81	46
4000	2.37	22	50	16.8	69	7.01	7.01	1205	0.4	2	14.5	80	10.1	10.1	1728	0.58	5	13.2	87	11.8	11.8	2024	0.51	5
4000	2.37	24	50	17.2	76	9.03	9.03	1554	0.52	3	14.9	86	12.8	12.1	2207	0.74	8	13.7	91	15.4	13.7	2641	0.66	8
4000	2.37	26	50	17.4	80	13.3	11.3	2281	0.76	7	14.4	86	21.5	15.3	3692	1.23	21	13.1	90	24.1	17.1	4150	1.04	17
4000	2.37	28	50	17.2	79	21.5	14.2	3697	1.23	16	14.6	85	27.9	17.6	4804	1.6	33	12.8	90	32.1	19.9	5514	1.38	28
4000	2.37	30	50	17.6	79	27.6	16.1	4747	1.58	24	15	85	33.9	19.5	5839	1.95	46	13	90	38.8	22.1	6670	1.67	40
4000	2.37	32	50	18.3	79	33.2	17.7	5702	1.9	33								13.3	90	45.7	24.2	7869	1.97	53

Tw5 - 12°C				3R							4R							6R						
Pa m³/h	Va m/s	Tia °C	Ur %	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa
2000	1.19	22	50	13.7	84	5.56	5.56	956	0.32	1	12.2	92	6.8	6.57	1169	0.39	3	10.8	96	8.44	7.48	1452	0.36	3
2000	1.19	24	50	14.6	87	6.8	6.23	1170	0.39	2	12.1	92	10.1	7.92	1737	0.58	6	10.7	96	11.8	8.85	2024	0.51	5
2000	1.19	26	50	14.8	87	9.91	7.4	1704	0.57	4	11.7	92	14.1	9.44	2416	0.81	10	10.3	95	15.6	10.4	2686	0.67	8
2000	1.19	28	50	14.6	86	13.8	8.78	2370	0.79	7	11.4	91	18.1	10.9	3106	1.04	16	9.9	95	19.7	11.9	3382	0.85	12
2000	1.19	30	50	14.5	85	17.8	10.1	3061	1.02	11	11.1	91	22.1	12.3	3796	1.27	22	9.6	95	23.8	13.3	4091	1.02	17
2000	1.19	32	50	14.4	85	21.8	11.4	3751	1.25	16	11.1	91	26.1	13.5	4482	1.49	30	9.4	95	28	14.6	4813	1.2	23
2400	1.42	22	50	14.3	81	6.17	6.17	1061	0.35	2	12.6	91	7.65	7.56	1316	0.44	3	11.2	95	9.62	8.68	1656	0.41	4
2400	1.42	24	50	15	85	7.72	7.15	1328	0.44	3	12.3	90	12	9.34	2069	0.69	8	10.9	94	13.9	10.4	2384	0.6	7
2400	1.42	26	50	15	85	11.8	8.67	2024	0.67	6	11.9	90	16.8	11.2	2893	0.96	14	10.5	94	18.6	12.3	3203	0.8	11
2400	1.42	28	50	14.8	84	16.5	10.4	2837	0.95	10	11.6	89	21.5	12.9	3694	1.23	21	10.1	94	23.4	14.1	4032	1.01	17
2400	1.42	30	50	14.8	83	21.1	11.9	3635	1.21	15	11.6	89	26.1	14.4	4481	1.49	29	9.9	94	28.3	15.7	4863	1.22	23
2400	1.42	32	50	14.9	83	25.7	13.3	4420	1.47	22	11.9	89	30.2	15.6	5194	1.73	38	9.7	93	33.2	17.3	5708	1.43	31
2800	1.66	22	50	14.7	79	6.82	6.82	1173	0.39	2	12.8	90	8.71	8.61	1497	0.5	4	11.5	94	10.8	9.87	1864	0.47	4
2800	1.66	24	50	15.3	84	8.68	8.06	1493	0.5	3	12.4	89	14.1	10.8	2420	0.81	10	11.1	93	16.1	12	2763	0.69	9
2800	1.66	26	50	15.2	83	13.8	9.96	2368	0.79	7	12	88	19.6	12.9	3367	1.12	18	10.6	93	21.7	14.2	3723	0.93	15
2800	1.66	28	50	15.1	82	19.2	11.9	3300	1.1	13	11.9	88	24.8	14.8	4262	1.42	27	10.3	93	27.2	16.2	4677	1.17	22
2800	1.66	30	50	15.1	82	24.3	13.6	4186	1.4	20	12.2	88	29.4	16.3	5060	1.69	36	10.2	92	32.7	18.1	5615	1.4	30
2800	1.66	32	50	15.6	81	28.9	14.9	4962	1.66	26	12.5	87	34.1	17.6	5872	1.96	47	10.2	92	37.9	19.7	6522	1.63	39

UT7 - BATTERIA DI RAFFREDDAMENTO AD ACQUA

UT7 - WATER COOLING COILSUT

Tw 7 - 12°C				3R								4R								6R											
Pa m³/h	Va m/s	Tia °C	Ur %	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa
3000	1.14	22	50	14.9	78	7.1	7.1	1222	0.41	3	13.2	87	8.86	8.86	1525	0.38	3	11.9	95	10.1	10.1	1740	0.29	2							
3000	1.14	24	50	15.6	84	8.54	8.39	1468	0.49	4	13.8	93	10.7	10.1	1843	0.46	4	13	96	11.8	10.9	2037	0.34	2							
3000	1.14	26	50	15.3	84	14.4	10.6	2471	0.82	11	13.1	92	17.6	12.8	3023	0.76	10	12.6	96	17.8	13.2	3063	0.51	5							
3000	1.14	28	50	15.3	83	19.8	12.5	3412	1.14	20	12.6	92	24.1	15.1	4141	1.04	17	12	96	24.6	15.7	4233	0.71	8							
3000	1.14	30	50	15.5	82	25	14.1	4294	1.43	29	12.4	92	30.2	17.2	5193	1.3	25	11.5	96	31.3	18.1	5389	0.9	13							
3000	1.14	32	50	16.1	82	29.5	15.5	5082	1.7	39	12.4	91	35.9	19	6176	1.55	33	11.2	95	38	20.2	6530	1.09	18							
3600	1.37	22	50	15.2	77	8.19	8.19	1409	0.47	4	13.4	86	10.3	10.3	1770	0.44	4	12.5	91	11.4	11.4	1963	0.33	2							
3600	1.37	24	50	15.8	82	10.3	9.82	1765	0.59	6	14	91	12.9	12	2222	0.56	6	13.3	95	13.6	12.7	2340	0.39	3							
3600	1.37	26	50	15.5	82	17.2	12.4	2960	0.99	15	13.2	91	21.3	15.2	3664	0.92	13	12.7	95	21.4	15.8	3686	0.61	7							
3600	1.37	28	50	15.7	81	23.3	14.5	4010	1.34	26	12.8	90	28.7	17.9	4935	1.23	23	12.1	95	29.6	18.8	5096	0.85	12							
3600	1.37	30	50	16.2	80	28.5	16.2	4905	1.64	37	12.8	90	35.3	20.1	6075	1.52	32	11.7	94	37.5	21.5	6445	1.07	18							
3600	1.37	32	50	16.8	80	33.8	17.6	5813	1.94	50	13.1	90	41.6	22	7158	1.79	43	11.4	94	45.1	23.9	7765	1.29	24							
4200	1.6	22	50	15.4	76	9.29	9.29	1598	0.53	5	13.6	85	11.8	11.8	2022	0.51	5	12.8	89	12.9	12.9	2215	0.37	3							
4200	1.6	24	50	15.9	81	12.2	11.3	2099	0.7	8	14	90	15.5	14	2660	0.67	8	13.5	94	15.5	14.6	2672	0.45	4							
4200	1.6	26	50	15.8	80	19.9	14.2	3426	1.14	20	13.3	89	25	17.6	4297	1.07	18	12.8	94	25.3	18.3	4343	0.72	9							
4200	1.6	28	50	16.1	79	26.2	16.3	4514	1.51	32	13.1	89	33.1	20.5	5691	1.42	29	12.2	93	34.6	21.8	5950	0.99	15							
4200	1.6	30	50	16.8	79	31.9	18	5478	1.83	45	13.4	89	39.9	22.7	6858	1.72	40	11.9	93	43.4	24.8	7465	1.24	23							
4200	1.6	32	50															11.8	93	51.8	27.4	8914	1.49	31							
4800	1.83	22	50	15.5	75	10.4	10.4	1789	0.6	6	13.7	84	13.3	13.3	2279	0.57	6	13.1	88	14.4	14.4	2469	0.41	3							
4800	1.83	24	50	16	79	14.2	12.8	2447	0.82	11	14	89	18.2	16	3131	0.78	10	13.6	93	17.7	16.5	3045	0.51	5							
4800	1.83	26	50	16	78	22.5	15.8	3871	1.29	24	13.4	88	28.5	19.9	4905	1.23	22	12.8	93	29.2	20.9	5013	0.84	11							
4800	1.83	28	50	16.6	78	28.8	17.9	4956	1.65	38	13.5	87	36.6	22.8	6302	1.58	35	12.3	92	39.5	24.7	6788	1.13	19							
4800	1.83	30	50	17.3	78	35	19.8	6019	2.01	53	13.9	87	44.2	25.2	7605	1.9	48	12.1	92	49.2	28	8461	1.41	28							
4800	1.83	32	50															12.3	92	57.9	30.6	9952	1.66	38							
5400	2.06	22	50	15.6	75	11.5	11.5	1981	0.66	8	13.8	84	14.8	14.8	2541	0.64	7	13.2	87	15.9	15.9	2726	0.45	4							
5400	2.06	24	50	16.1	78	16.2	14.2	2793	0.93	14	14	87	21	18	3609	0.9	13	13.7	92	20.2	18.5	3466	0.58	6							
5400	2.06	26	50	16.3	77	24.9	17.4	4281	1.43	29	13.6	87	32.1	22.2	5514	1.38	27	12.8	92	33	23.4	5678	0.95	14							
5400	2.06	28	50	17	77	31.3	19.5	5374	1.79	43	13.9	86	40	24.9	6887	1.72	40	12.4	91	44.2	27.5	7603	1.27	24							
5400	2.06	30	50															12.5	91	54.1	30.8	9305	1.55	34							
5400	2.06	32	50															12.7	91	63.7	33.7	###	1.83	45							
6000	2.29	22	50	15.7	74	12.6	12.6	2172	0.72	9	13.9	83	16.3	16.3	2805	0.7	8	13.3	86	17.4	17.4	2990	0.5	5							
6000	2.29	24	50	16.2	77	18.2	15.6	3128	1.04	17	14	86	23.7	19.9	4078	1.02	16	13.7	91	22.8	20.5	3929	0.66	7							
6000	2.29	26	50	16.6	76	26.7	18.7	4594	1.53	33	13.9	86	34.7	24	5970	1.49	31	12.9	91	36.8	25.9	6339	1.06	17							
6000	2.29	28	50	17.4	76	33.6	20.9	5773	1.93	49	14.3	85	43.3	27	7448	1.86	46	12.6	90	48.8	30.3	8398	1.4	28							
6000	2.29	30	50															12.8	90	58.8	33.5	###	1.69	39							
6000	2.29	32	50															13.1	90	69.3	36.6	###	1.99	52							

Tw 5 - 12°C																								
Pa m³/h	Va m/s	Tia °C	Ur %	3R							4R							6R						
				Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa	Tua °C	Ur %	Otot kW	Osen kW	Pw l/h	Vw m/s	DPw kPa
3000	1.14	22	50	13.8	84	8.37	8.26	1440	0.48	4	12	93	10.6	10	1815	0.45	4	11.1	96	11.9	10.9	2042	0.34	2
3000	1.14	24	50	13.6	83	13.6	10.4	2345	0.78	10	11.4	92	16.7	12.5	2868	0.72	9	10.9	96	17.2	13.1	2949	0.49	5
3000	1.14	26	50	13.6	82	18.8	12.3	3235	1.08	18	10.9	92	22.8	14.9	3926	0.98	15	10.3	96	23.4	15.5	4016	0.67	8
3000	1.14	28	50	13.7	82	23.7	14	4083	1.36	27	10.6	91	28.7	17.1	4938	1.24	23	9.8	95	29.6	17.9	5098	0.85	12
3000	1.14	30	50	14.2	82	28.4	15.5	4875	1.63	37	10.5	91	34.4	19	5922	1.48	31	9.5	95	36	20.1	6186	1.03	17
3000	1.14	32	50	14.8	81	32.9	16.7	5657	1.89	48	10.8	91	39.8	20.6	6843	1.71	40	9.2	95	42.3	22.1	7276	1.21	22
3600	1.37	22	50	14	82	9.92	9.62	1707	0.57	6	12.2	91	12.5	11.8	2156	0.54	5	11.5	95	13.5	12.7	2328	0.39	3
3600	1.37	24	50	13.8	81	16.3	12.2	2808	0.94	14	11.5	90	20.2	15	3479	0.87	12	11	95	20.5	15.5	3520	0.59	6
3600	1.37	26	50	13.9	81	22.2	14.3	3812	1.27	24	11.1	90	27.3	17.7	4692	1.17	21	10.4	94	28.1	18.5	4830	0.81	11
3600	1.37	28	50	14.3	80	27.5	16.1	4725	1.58	35	10.9	90	34.1	20.2	5861	1.47	31	10	94	35.5	21.3	6106	1.02	16
3600	1.37	30	50	15	80	32.4	17.6	5573	1.86	47	11.2	89	39.9	22	6867	1.72	41	9.7	94	42.8	23.8	7364	1.23	23
3600	1.37	32	50								11.5	89	46.2	23.9	7942	1.99	52	9.5	94	50.2	26.1	8636	1.44	30
4200	1.6	22	50	14.1	81	11.7	11	2009	0.67	8	12.3	90	14.8	13.7	2552	0.64	7	11.7	94	15.3	14.5	2638	0.44	4
4200	1.6	24	50	14	80	19	13.9	3262	1.09	18	11.6	89	23.8	17.3	4088	1.02	16	11.1	94	24	18	4124	0.69	8
4200	1.6	26	50	14.3	79	25.3	16.3	4359	1.45	30	11.3	88	31.6	20.3	5431	1.36	27	10.5	93	32.8	21.5	5642	0.94	14
4200	1.6	28	50	14.9	78	30.7	18	5278	1.76	42	11.5	88	38.4	22.7	6609	1.65	38	10.1	93	41.3	24.6	7095	1.18	21
4200	1.6	30	50								11.8	88	45.1	24.9	7762	1.94	50	10	93	49.5	27.4	8509	1.42	29
4200	1.6	32	50															10.1	92	57.4	29.8	9865	1.65	38
4800	1.83	22	50	14.2	79	13.6	12.4	2334	0.78	10	12.3	88	17.4	15.6	2989	0.75	9	11.9	93	17.3	16.3	2974	0.5	5
4800	1.83	24	50	14.2	78	21.5	15.6	3692	1.23	23	11.7	88	27.2	19.6	4679	1.17	21	11.1	92	27.7	20.5	4757	0.79	11
4800	1.83	26	50	14.7	78	27.9	17.9	4803	1.6	36	11.6	87	35.5	22.8	6110	1.53	33	10.6	92	37.5	24.4	6448	1.08	18
4800	1.83	28	50	15.4	77	33.7	19.8	5799	1.93	50	12	87	42.6	25.2	7329	1.83	46	10.3	92	46.9	27.8	8063	1.34	27
4800	1.83	30	50															10.4	91	55.5	30.7	9550	1.59	36
4800	1.83	32	50															10.6	91	64.1	33.2	###	1.84	46
5400	2.06	22	50	14.3	78	15.5	13.8	2665	0.89	13	12.3	87	20	17.6	3444	0.86	12	11.9	92	19.5	18.2	3355	0.56	6
5400	2.06	24	50	14.4	77	23.9	17.1	4106	1.37	27	11.8	86	30.5	21.8	5251	1.31	25	11.1	91	31.4	23	5394	0.9	13
5400	2.06	26	50	15.1	76	30.3	19.4	5207	1.74	41	12	86	38.8	24.9	6675	1.67	39	10.7	91	42.1	27.2	7234	1.21	22
5400	2.06	28	50								12.4	86	46.6	27.6	8021	2.01	53	10.6	91	52.2	30.9	8968	1.5	32
5400	2.06	30	50															10.8	90	61.1	33.7	###	1.75	42
5400	2.06	32	50																					
6000	2.29	22	50	14.4	77	17.4	15.2	2992	1	16	12.3	86	22.7	19.5	3899	0.98	15	12	91	21.9	20.1	3773	0.63	7
6000	2.29	24	50	14.7	76	26.1	18.6	4494	1.5	32	12	85	33.7	24	5804	1.45	30	11.2	90	35.1	25.5	6028	1.01	16
6000	2.29	26	50	15.4	75	32.6	20.9	5597	1.87	47	12.4	85	42	27	7223	1.81	44	10.9	90	46.5	30	8001	1.33	26
6000	2.29	28	50															10.9	90	56.7	33.6	9754	1.63	37
6000	2.29	30	50															11.2	89	66.5	36.7	###	1.91	49
6000	2.29	32	50																					

UT1 - BATTERIA AD ESPANSIONE DIRETTA AD R407C
UT1 - WATER COOLING COILS

Pa m ³ /h	Va m/s	Tia °C	Ur %	Tue 7°C							DPi kPa	Tue 7°C						
				Tua °C	Ur %	Qtot kW	Osen kW	Tie °C	Tue °C	Tuc °C		Tua °C	Ur %	Qtot kW	Osen kW	Tie °C	Tue °C	Tuc °C
500	0.97	24	50	12.3	88	2.59	1.95	1.9	7	50	9	11.2	88	3.03	2.13	0.2	5	50
500	0.97	25	50	12.7	88	2.85	2.04	2	7	50	10	11.6	88	3.29	2.22	0.3	5	50
500	0.97	26	50	13.1	88	3.11	2.13	2.1	7	50	12	12	87	3.55	2.31	0.4	5	50
500	0.97	27	50	13.5	88	3.38	2.22	2.2	7	50	14	12.4	87	3.82	2.4	0.5	5	50
500	0.97	28	50	13.9	88	3.66	2.31	2.3	7	50	16	12.8	87	4.1	2.49	0.7	5	50
600	1.17	24	50	13	86	2.87	2.2	2	7	50	11	11.9	86	3.36	2.4	0.3	5	50
600	1.17	25	50	13.4	86	3.16	2.3	2.1	7	50	12	12.4	86	3.64	2.5	0.5	5	50
600	1.17	26	50	13.8	86	3.45	2.41	2.2	7	50	15	12.8	86	3.94	2.6	0.6	5	50
600	1.17	27	50	14.3	86	3.75	2.51	2.3	7	50	17	13.3	86	4.24	2.7	0.7	5	50
600	1.17	28	50	14.7	86	4.06	2.61	2.4	7	50	20	13.8	86	4.55	2.8	0.9	5	50
700	1.36	24	50	13.5	85	3.12	2.43	2.1	7	50	12	12.6	85	3.64	2.65	0.5	5	50
700	1.36	25	50	14	85	3.42	2.55	2.2	7	50	14	13.1	84	3.95	2.76	0.6	5	50
700	1.36	26	50	14.5	85	3.74	2.66	2.3	7	50	17	13.6	84	4.27	2.87	0.8	5	50
700	1.36	27	50	15	85	4.07	2.77	2.4	7	50	20	14.1	84	4.6	2.97	0.9	5	50
700	1.36	28	50	15.5	85	4.4	2.88	2.6	7	50	23	14.6	84	4.94	3.08	1.1	5	50
800	1.56	24	50	14	84	3.33	2.65	2.1	7	50	14	13.2	83	3.9	2.88	0.6	5	50
800	1.56	25	50	14.5	84	3.66	2.77	2.3	7	50	16	13.7	83	4.23	3	0.7	5	50
800	1.56	26	50	15	84	4	2.89	2.4	7	50	19	14.2	83	4.57	3.11	0.9	5	50
800	1.56	27	50	15.6	84	4.35	3.01	2.6	7	50	22	14.7	83	4.92	3.23	1.1	5	50
800	1.56	28	50	16.1	84	4.71	3.12	2.7	7	50	25	15.3	83	5.28	3.34	1.3	5	50
900	1.75	24	50	14.5	83	3.52	2.85	2.2	7	50	15	13.7	82	4.12	3.09	0.7	5	50
900	1.75	25	50	15	83	3.87	2.98	2.4	7	50	18	14.2	82	4.47	3.22	0.9	5	50
900	1.75	26	50	15.5	83	4.23	3.11	2.5	7	50	21	14.7	82	4.83	3.34	1	5	50
900	1.75	27	50	16.1	83	4.6	3.23	2.7	7	50	24	15.3	82	5.21	3.46	1.2	5	50
900	1.75	28	50	16.6	83	4.98	3.36	2.8	7	50	28	15.9	82	5.59	3.58	1.5	5	50
1000	1.95	24	50	14.8	82	3.69	3.04	2.3	7	50	16	14.1	81	4.32	3.29	0.8	5	50
1000	1.95	25	50	15.4	82	4.06	3.18	2.4	7	50	20	14.7	81	4.69	3.42	1	5	50
1000	1.95	26	50	16	82	4.43	3.31	2.6	7	50	23	15.2	81	5.07	3.55	1.2	5	50
1000	1.95	27	50	16.5	82	4.82	3.44	2.8	7	50	27	15.8	81	5.46	3.68	1.4	5	50
1000	1.95	28	50	17.1	82	5.22	3.57	3	7	50	31	16.4	81	5.87	3.81	1.6	5	50

UT2 - BATTERIA AD ESPANSIONE DIRETTA AD R407C
UT2 - WATER COOLING COILS

Pa m ³ /h	Va m/s	Tia °C	Ur %	Tue 7°C							DPi kPa	Tue 7°C						
				Tua °C	Ur %	Qtot kW	Osen kW	Tie °C	Tue °C	Tuc °C		Tua °C	Ur %	Qtot kW	Osen kW	Tie °C	Tue °C	Tuc °C
800	1.33	24	50	13.4	85	3.61	2.81	2.3	7	50	18	12.5	85	4.22	3.06	0.9	5	50
800	1.33	25	50	13.9	85	3.97	2.94	2.5	7	50	21	13	85	4.58	3.19	1.1	5	50
800	1.33	26	50	14.4	85	4.33	3.07	2.7	7	50	24	13.4	85	4.95	3.31	1.3	5	50
800	1.33	27	50	14.8	85	4.71	3.2	2.9	7	50	28	13.9	85	5.33	3.44	1.5	5	50
800	1.33	28	50	15.3	85	5.1	3.32	3.1	7	50	33	14.4	85	5.72	3.56	1.8	5	50
900	1.49	24	50	13.9	84	3.83	3.03	2.4	7	50	20	13	84	4.48	3.29	1	5	50
900	1.49	25	50	14.4	84	4.21	3.17	2.6	7	50	23	13.5	84	4.86	3.43	1.2	5	50
900	1.49	26	50	14.9	84	4.6	3.31	2.8	7	50	27	14	84	5.25	3.56	1.5	5	50
900	1.49	27	50	15.4	84	5	3.44	3	7	50	32	14.5	84	5.66	3.69	1.7	5	50
900	1.49	28	50	15.9	84	5.42	3.57	3.3	7	50	36	15	84	6.08	3.82	2	5	50
1000	1.66	24	50	14.2	83	4.03	3.24	2.5	7	50	21	13.4	83	4.72	3.51	1.1	5	50
1000	1.66	25	50	14.8	83	4.43	3.39	2.7	7	50	25	14	83	5.12	3.66	1.4	5	50
1000	1.66	26	50	15.3	83	4.84	3.53	2.9	7	50	30	14.5	83	5.53	3.8	1.6	5	50
1000	1.66	27	50	15.8	83	5.26	3.67	3.2	7	50	35	15	83	5.96	3.93	1.9	5	50
1000	1.66	28	50	16.4	83	5.7	3.81	3.4	7	50	40	15.6	83	6.4	4.07	2.2	5	50
1100	1.82	24	50	14.6	82	4.21	3.43	2.6	7	50	23	13.8	82	4.93	3.72	1.3	5	50
1100	1.82	25	50	15.1	82	4.63	3.59	2.8	7	50	28	14.4	82	5.35	3.87	1.5	5	50
1100	1.82	26	50	15.7	82	5.06	3.74	3	7	50	32	14.9	82	5.78	4.02	1.8	5	50
1100	1.82	27	50	16.2	82	5.5	3.89	3.3	7	50	37	15.5	82	6.23	4.16	2.1	5	50
1100	1.82	28	50	16.8	82	5.96	4.04	3.6	7	50	43	16.1	82	6.69	4.3	2.4	5	50
1200	1.99	24	50	14.9	82	4.38	3.62	2.7	7	50	25	14.2	81	5.13	3.92	1.4	5	50
1200	1.99	25	50	15.5	82	4.81	3.78	2.9	7	50	30	14.7	81	5.57	4.07	1.7	5	50
1200	1.99	26	50	16	81	5.26	3.94	3.2	7	50	35	15.3	81	6.01	4.23	2	5	50
1200	1.99	27	50	16.6	81	5.72	4.1	3.4	7	50	40	15.9	81	6.48	4.38	2.3	5	50
1200	1.99	28	50	17.2	81	6.2	4.25	3.7	7	50	46	16.5	81	6.96	4.53	2.6	5	50
1300	2.16	24	50	15.2	81	4.53	3.8	2.8	7	50	27	14.5	80	5.31	4.1	1.5	5	50
1300	2.16	25	50	15.8	81	4.98	3.97	3	7	50	31	15.1	80	5.76	4.27	1.8	5	50
1300	2.16	26	50	16.4	81	5.44	4.13	3.3	7	50	37	15.7	80	6.23	4.43	2.1	5	50
1300	2.16	27	50	16.9	81	5.92	4.3	3.6	7	50	43	16.3	80	6.71	4.58	2.5	5	50
1300	2.16	28	50	17.5	81	6.41	4.46	3.9	7	50	49	16.9	80	7.21	4.74	2.8	5	50

UT3 - BATTERIA AD ESPANSIONE DIRETTA AD R407C**UT3 - WATER COOLING COILS**

Pa m ³ /h	Va m/s	Tia °C	Ur %	Tue 7°C								Tue 7°C							
				Tua °C	Ur %	Qtot kW	Qsen kW	Tie °C	Tue °C	Tuc °C	DPi kPa	Tua °C	Ur %	Qtot kW	Qsen kW	Tie °C	Tue °C	Tuc °C	DPi kPa
1050	1.34	24	50	13.5	85	4.71	3.67	2	7	50	11	12.5	85	5.51	4	0.4	5	50	16
1050	1.34	25	50	13.9	85	5.18	3.84	2.1	7	50	13	13	85	5.98	4.17	0.5	5	50	18
1050	1.34	26	50	14.4	85	5.66	4.01	2.2	7	50	15	13.5	85	6.46	4.33	0.6	5	50	21
1050	1.34	27	50	14.9	85	6.15	4.18	2.3	7	50	18	14	85	6.96	4.49	0.8	5	50	24
1050	1.34	28	50	15.4	85	6.66	4.34	2.5	7	50	21	14.5	85	7.47	4.65	1	5	50	27
1200	1.53	24	50	14	84	5.04	4	2.1	7	50	12	13.1	83	5.9	4.35	0.5	5	50	18
1200	1.53	25	50	14.5	84	5.54	4.18	2.2	7	50	15	13.6	83	6.4	4.52	0.6	5	50	21
1200	1.53	26	50	15	84	6.05	4.37	2.3	7	50	17	14.1	83	6.91	4.7	0.8	5	50	24
1200	1.53	27	50	15.5	84	6.58	4.54	2.5	7	50	20	14.6	83	7.45	4.87	1	5	50	27
1200	1.53	28	50	16	84	7.13	4.72	2.6	7	50	23	15.2	83	8	5.04	1.1	5	50	31
1350	1.72	24	50	14.4	83	5.33	4.31	2.1	7	50	14	13.6	82	6.24	4.67	0.6	5	50	20
1350	1.72	25	50	14.9	83	5.86	4.5	2.3	7	50	16	14.1	82	6.77	4.86	0.7	5	50	23
1350	1.72	26	50	15.5	83	6.4	4.69	2.4	7	50	19	14.7	82	7.32	5.05	0.9	5	50	26
1350	1.72	27	50	16	83	6.96	4.88	2.6	7	50	22	15.2	82	7.88	5.23	1.1	5	50	30
1350	1.72	28	50	16.5	83	7.54	5.07	2.7	7	50	26	15.8	82	8.46	5.41	1.3	5	50	34
1500	1.92	24	50	14.8	82	5.59	4.6	2.2	7	50	15	14	81	6.55	4.97	0.7	5	50	21
1500	1.92	25	50	15.3	82	6.14	4.8	2.3	7	50	18	14.6	81	7.11	5.17	0.8	5	50	25
1500	1.92	26	50	15.9	82	6.71	5	2.5	7	50	21	15.1	81	7.68	5.37	1	5	50	29
1500	1.92	27	50	16.4	82	7.3	5.2	2.7	7	50	24	15.7	81	8.27	5.56	1.2	5	50	33
1500	1.92	28	50	17	82	7.91	5.4	2.8	7	50	28	16.3	81	8.88	5.75	1.5	5	50	37
1650	2.11	24	50	15.1	81	5.83	4.87	2.3	7	50	16	14.4	81	6.83	5.26	0.8	5	50	23
1650	2.11	25	50	15.7	81	6.4	5.09	2.4	7	50	19	15	81	7.41	5.47	0.9	5	50	27
1650	2.11	26	50	16.3	81	7	5.3	2.6	7	50	22	15.6	81	8.01	5.67	1.1	5	50	31
1650	2.11	27	50	16.8	81	7.61	5.51	2.8	7	50	26	16.2	80	8.63	5.88	1.4	5	50	35
1650	2.11	28	50	17.4	81	8.25	5.71	2.9	7	50	30	16.8	80	9.27	6.07	1.6	5	50	40
1800	2.3	24	50	15.4	80	6.04	5.13	2.3	7	50	17	14.7	80	7.08	5.53	0.8	5	50	25
1800	2.3	25	50	16	80	6.64	5.36	2.5	7	50	20	15.3	80	7.69	5.75	1	5	50	29
1800	2.3	26	50	16.6	80	7.26	5.58	2.6	7	50	24	16	80	8.31	5.96	1.2	5	50	33
1800	2.3	27	50	17.2	80	7.9	5.79	2.8	7	50	28	16.6	80	8.95	6.17	1.5	5	50	38
1800	2.3	28	50	17.8	80	8.55	6.01	3	7	50	32	17.2	80	9.61	6.38	1.7	5	50	43

UT4 - BATTERIA AD ESPANSIONE DIRETTA AD R407C**UT4 - WATER COOLING COILS**

Pa m ³ /h	Va m/s	Tia °C	Ur %	Tue 7°C								Tue 7°C							
				Tua °C	Ur %	Qtot kW	Qsen kW	Tie °C	Tue °C	Tuc °C	DPi kPa	Tua °C	Ur %	Qtot kW	Qsen kW	Tie °C	Tue °C	Tuc °C	DPi kPa
1200	1.24	24	50	13.2	86	5.58	4.31	1.9	7	50	9	12.2	85	6.53	4.7	0.2	5	50	13
1200	1.24	25	50	13.6	86	6.13	4.51	2	7	50	11	12.7	85	7.08	4.9	0.3	5	50	15
1200	1.24	26	50	14.1	86	6.7	4.71	2.1	7	50	12	13.1	85	7.65	5.09	0.4	5	50	17
1200	1.24	27	50	14.6	86	7.29	4.91	2.2	7	50	14	13.6	85	8.24	5.28	0.6	5	50	19
1200	1.24	28	50	15	86	7.89	5.1	2.3	7	50	17	14.1	85	8.85	5.47	0.7	5	50	22
1400	1.45	24	50	13.8	84	6.04	4.76	2	7	50	10	12.9	84	7.07	5.18	0.3	5	50	15
1400	1.45	25	50	14.2	84	6.64	4.98	2.1	7	50	12	13.4	84	7.67	5.39	0.4	5	50	17
1400	1.45	26	50	14.7	84	7.25	5.2	2.2	7	50	14	13.9	84	8.29	5.6	0.6	5	50	19
1400	1.45	27	50	15.2	84	7.89	5.41	2.3	7	50	17	14.4	84	8.93	5.81	0.7	5	50	22
1400	1.45	28	50	15.7	84	8.55	5.62	2.4	7	50	19	14.9	84	9.59	6.01	0.9	5	50	25
1600	1.66	24	50	14.2	83	6.45	5.18	2	7	50	12	13.4	83	7.55	5.62	0.4	5	50	16
1600	1.66	25	50	14.8	83	7.08	5.42	2.1	7	50	14	14	83	8.19	5.85	0.6	5	50	19
1600	1.66	26	50	15.3	83	7.74	5.65	2.3	7	50	16	14.5	83	8.85	6.07	0.7	5	50	22
1600	1.66	27	50	15.8	83	8.42	5.88	2.4	7	50	19	15	83	9.53	6.3	0.9	5	50	25
1600	1.66	28	50	16.4	83	9.12	6.1	2.5	7	50	21	15.6	83	10.2	6.51	1	5	50	28
1800	1.87	24	50	14.7	82	6.81	5.57	2.1	7	50	13	13.9	82	7.97	6.03	0.5	5	50	18
1800	1.87	25	50	15.2	82	7.48	5.82	2.2	7	50	15	14.5	82	8.65	6.27	0.7	5	50	21
1800	1.87	26	50	15.8	82	8.17	6.07	2.3	7	50	18	15	82	9.35	6.51	0.8	5	50	24
1800	1.87	27	50	16.3	82	8.89	6.31	2.5	7	50	20	15.6	82	10.1	6.75	1	5	50	28
1800	1.87	28	50	16.9	82	9.63	6.55	2.6	7	50	24	16.2	82	10.8	6.98	1.2	5	50	31
2000	2.07	24	50	15.1	81	7.13	5.94	2.2	7	50	14	14.3	81	8.35	6.42	0.6	5	50	20
2000	2.07	25	50	15.6	81	7.83	6.2	2.3	7	50	16	14.9	81	9.06	6.67	0.7	5	50	23
2000	2.07	26	50	16.2	81	8.56	6.46	2.4	7	50	19	15.5	81	9.8	6.93	0.9	5	50	26
2000	2.07	27	50	16.8	81	9.31	6.72	2.6	7	50	22	16.1	81	10.6	7.17	1.1	5	50	30
2000	2.07	28	50	17.4	81	10.1	6.97	2.7	7	50	26	16.7	81	11.3	7.41	1.3	5	50	34
2200	2.28	24	50	15.4	80	7.42	6.29	2.2	7	50	15	14.7	80	8.7	6.79	0.7	5	50	21
2200	2.28	25	50	16	80	8.15	6.57	2.3	7	50	18	15.3	80	9.44	7.05	0.8	5	50	25
2200	2.28	26	50	16.6	80	8.91	6.84	2.5	7	50	21	15.9	80	10.2	7.32	1	5	50	28
2200	2.28	27	50	17.2	80	9.7	7.1	2.6	7	50	24	16.5	80	11	7.57	1.2	5	50	32
2200	2.28	28	50	17.8	80	10.5	7.36	2.8	7	50	28	17.1	80	11.8	7.83	1.4	5	50	37

UT5 - BATTERIA AD ESPANSIONE DIRETTA AD R407C**UT5 - WATER COOLING COILS**

Pa m ³ /h	Va m/s	Tia °C	Ur %	Tue 7°C								Tue 7°C							
				Tua °C	Ur %	Qtot kW	Qsen kW	Tie °C	Tue °C	Tuc °C	DPf kPa	Tua °C	Ur %	Qtot kW	Qsen kW	Tie °C	Tue °C	Tuc °C	DPf kPa
1500	1.2	24	50	13	86	7.1	5.46	2.3	7	50	17	12	86	8.31	5.95	0.8	5	50	24
1500	1.2	25	50	13.5	86	7.8	5.71	2.4	7	50	20	12.5	86	9.01	6.21	1	5	50	27
1500	1.2	26	50	13.9	86	8.53	5.97	2.6	7	50	23	13	86	9.73	6.45	1.2	5	50	31
1500	1.2	27	50	14.4	86	9.27	6.22	2.8	7	50	27	13.4	86	10.5	6.7	1.4	5	50	36
1500	1.2	28	50	14.8	86	10	6.47	3	7	50	31	13.9	86	11.3	6.94	1.6	5	50	41
1750	1.4	24	50	13.6	85	7.7	6.03	2.4	7	50	19	12.7	84	9.01	6.56	1	5	50	27
1750	1.4	25	50	14.1	85	8.46	6.31	2.6	7	50	23	13.2	84	9.77	6.84	1.2	5	50	32
1750	1.4	26	50	14.6	85	9.24	6.59	2.8	7	50	26	13.7	84	10.6	7.11	1.4	5	50	36
1750	1.4	27	50	15.1	85	10.1	6.86	3	7	50	31	14.2	84	11.4	7.37	1.7	5	50	41
1750	1.4	28	50	15.6	85	10.9	7.13	3.2	7	50	36	14.7	84	12.2	7.63	1.9	5	50	47
2000	1.6	24	50	14.1	84	8.22	6.57	2.5	7	50	21	13.3	83	9.63	7.13	1.1	5	50	31
2000	1.6	25	50	14.6	84	9.03	6.87	2.7	7	50	25	13.8	83	10.4	7.42	1.4	5	50	35
2000	1.6	26	50	15.1	83	9.87	7.16	2.9	7	50	30	14.3	83	11.3	7.71	1.6	5	50	41
2000	1.6	27	50	15.7	83	10.7	7.45	3.2	7	50	35	14.8	83	12.2	7.99	1.9	5	50	47
2000	1.6	28	50	16.2	83	11.6	7.74	3.4	7	50	40	15.4	83	13.1	8.27	2.2	5	50	53
2250	1.8	24	50	14.5	83	8.69	7.07	2.6	7	50	24	13.8	82	10.2	7.66	1.3	5	50	34
2250	1.8	25	50	15.1	82	9.55	7.39	2.8	7	50	28	14.3	82	11	7.97	1.6	5	50	39
2250	1.8	26	50	15.6	82	10.4	7.7	3.1	7	50	33	14.9	82	11.9	8.27	1.8	5	50	45
2250	1.8	27	50	16.2	82	11.4	8.01	3.3	7	50	38	15.4	82	12.9	8.57	2.2	5	50	51
2250	1.8	28	50	16.7	82	12.3	8.31	3.6	7	50	44	16	82	13.8	8.86	2.5	5	50	58
2500	2	24	50	14.9	82	9.11	7.54	2.7	7	50	26	14.2	81	10.7	8.15	1.4	5	50	37
2500	2	25	50	15.5	81	10	7.87	3	7	50	31	14.8	81	11.6	8.48	1.7	5	50	43
2500	2	26	50	16	81	10.9	8.21	3.2	7	50	36	15.3	81	12.5	8.8	2	5	50	49
2500	2	27	50	16.6	81	11.9	8.53	3.5	7	50	42	15.9	81	13.5	9.11	2.4	5	50	56
2500	2	28	50	17.2	81	12.9	8.85	3.8	7	50	48	16.5	81	14.5	9.42	2.8	5	50	64
2750	2.2	24	50	15.3	81	9.48	7.99	2.8	7	50	28	14.6	80	11.1	8.62	1.6	5	50	40
2750	2.2	25	50	15.8	81	10.4	8.34	3.1	7	50	33	15.2	80	12.1	8.96	1.9	5	50	46
2750	2.2	26	50	16.4	81	11.4	8.68	3.3	7	50	39	15.8	80	13	9.3	2.2	5	50	53
2750	2.2	27	50	17	81	12.4	9.02	3.6	7	50	45	16.4	80	14.1	9.62	2.6	5	50	60
2750	2.2	28	50	17.6	81	13.4	9.35	4	7	50	52	17	80	15.1	9.95	3	5	50	69

UT6 - BATTERIA AD ESPANSIONE DIRETTA AD R407C**UT6 - WATER COOLING COILS**

Pa m ³ /h	Va m/s	Tia °C	Ur %	Tue 7°C								Tue 7°C							
				Tua °C	Ur %	Qtot kW	Qsen kW	Tie °C	Tue °C	Tuc °C	DPf kPa	Tua °C	Ur %	Qtot kW	Qsen kW	Tie °C	Tue °C	Tuc °C	DPf kPa
2000	1.19	24	50	13	86	9.51	7.3	2	7	50	11	12	86	11.1	7.96	0.4	5	50	16
2000	1.19	25	50	13.5	86	10.5	7.64	2.1	7	50	13	12.5	86	12.1	8.3	0.5	5	50	19
2000	1.19	26	50	13.9	86	11.4	7.98	2.2	7	50	16	12.9	86	13	8.63	0.7	5	50	21
2000	1.19	27	50	14.3	86	12.4	8.32	2.4	7	50	18	13.4	86	14	8.96	0.8	5	50	24
2000	1.19	28	50	14.8	86	13.4	8.65	2.5	7	50	21	13.8	86	15.1	9.28	1	5	50	28
2400	1.42	24	50	13.7	85	10.5	8.22	2.1	7	50	13	12.8	84	12.2	8.94	0.6	5	50	19
2400	1.42	25	50	14.2	85	11.5	8.6	2.3	7	50	16	13.3	84	13.3	9.31	0.7	5	50	22
2400	1.42	26	50	14.7	85	12.6	8.97	2.4	7	50	19	13.8	84	14.3	9.67	0.9	5	50	25
2400	1.42	27	50	15.2	84	13.7	9.34	2.5	7	50	22	14.3	84	15.5	10	1.1	5	50	29
2400	1.42	28	50	15.7	84	14.8	9.7	2.7	7	50	25	14.8	84	16.6	10.4	1.2	5	50	33
2800	1.66	24	50	14.3	83	11.3	9.06	2.2	7	50	15	13.4	83	13.2	9.83	0.7	5	50	22
2800	1.66	25	50	14.8	83	12.4	9.47	2.4	7	50	18	14	83	14.3	10.2	0.9	5	50	25
2800	1.66	26	50	15.3	83	13.5	9.88	2.5	7	50	21	14.5	83	15.5	10.6	1.1	5	50	29
2800	1.66	27	50	15.8	83	14.7	10.3	2.7	7	50	25	15	83	16.7	11	1.3	5	50	33
2800	1.66	28	50	16.4	83	15.9	10.7	2.9	7	50	28	15.6	83	17.9	11.4	1.5	5	50	38
3200	1.9	24	50	14.7	82	12	9.84	2.3	7	50	17	14	82	14	10.7	0.8	5	50	24
3200	1.9	25	50	15.3	82	13.2	10.3	2.5	7	50	20	14.5	81	15.2	11.1	1	5	50	28
3200	1.9	26	50	15.8	82	14.4	10.7	2.6	7	50	24	15.1	81	16.5	11.5	1.2	5	50	32
3200	1.9	27	50	16.4	82	15.7	11.1	2.8	7	50	28	15.7	81	17.7	11.9	1.5	5	50	37
3200	1.9	28	50	17	82	17	11.6	3	7	50	32	16.3	81	19	12.3	1.7	5	50	42
3600	2.14	24	50	15.2	81	12.6	10.6	2.4	7	50	19	14.5	80	14.8	11.4	0.9	5	50	27
3600	2.14	25	50	15.7	81	13.9	11	2.6	7	50	22	15	80	16	11.9	1.2	5	50	31
3600	2.14	26	50	16.3	81	15.2	11.5	2.7	7	50	26	15.6	80	17.3	12.3	1.4	5	50	36
3600	2.14	27	50	16.9	81	16.5	11.9	2.9	7	50	30	16.2	80	18.7	12.8	1.6	5	50	41
3600	2.14	28	50	17.5	81	17.9	12.4	3.2	7	50	35	16.8	80	20.1	13.2	1.9	5	50	46
4000	2.37	24	50	15.5	80	13.2	11.3	2.5	7	50	20	14.9	80	15.5	12.1	1.1	5	50	29
4000	2.37	25	50	16.1	80	14.5	11.7	2.6	7	50	24	15.5	79	16.8	12.6	1.3	5	50	34
4000	2.37	26	50	16.7	80	15.8	12.2	2.8	7	50	28	16.1	79	18.1	13.1	1.5	5	50	39
4000	2.37	27	50	17.3	80	17.2	12.7	3.1	7	50	33	16.7	79	19.5	13.5	1.8	5	50	44
4000	2.37	28	50	18	80	18.7	13.2	3.3	7	50	38	17.3	79	21	14	2.1	5	50	50

UT7 - BATTERIA AD ESPANSIONE DIRETTA AD R407C
UT7 - WATER COOLING COILS

Pa m ³ /h	Va m/s	Tia °C	Ur %	Tue 7°C								Tue 7°C							
				Tua °C	Ur %	Qtot kW	Qsen kW	Tie °C	Tue °C	Tuc °C	DPf kPa	Tua °C	Ur %	Qtot kW	Qsen kW	Tie °C	Tue °C	Tuc °C	DPf kPa
3000	1.14	24	50	12.9	87	14.5	11.1	2.2	7	50	16	11.9	86	17	12.1	0.7	5	50	22
3000	1.14	25	50	13.3	87	15.9	11.6	2.4	7	50	18	12.3	86	18.4	12.6	0.9	5	50	26
3000	1.14	26	50	13.7	87	17.4	12.1	2.5	7	50	22	12.7	86	19.9	13.1	1.1	5	50	29
3000	1.14	27	50	14.2	86	18.9	12.6	2.7	7	50	25	13.2	86	21.4	13.6	1.3	5	50	34
3000	1.14	28	50	14.6	86	20.5	13.1	2.9	7	50	29	13.6	86	23	14.1	1.5	5	50	38
3600	1.37	24	50	13.6	85	16	12.5	2.4	7	50	18	12.6	84	18.7	13.6	0.9	5	50	26
3600	1.37	25	50	14	85	17.5	13.1	2.5	7	50	22	13.1	84	20.3	14.2	1.1	5	50	30
3600	1.37	26	50	14.5	85	19.2	13.6	2.7	7	50	26	13.6	84	21.9	14.7	1.3	5	50	35
3600	1.37	27	50	15	85	20.9	14.2	2.9	7	50	30	14.1	84	23.6	15.3	1.6	5	50	40
3600	1.37	28	50	15.5	85	22.6	14.8	3.1	7	50	34	14.6	84	25.3	15.8	1.9	5	50	45
4200	1.6	24	50	14.1	84	17.2	13.8	2.5	7	50	21	13.3	83	20.2	15	1.1	5	50	30
4200	1.6	25	50	14.6	84	18.9	14.4	2.7	7	50	25	13.8	83	21.9	15.6	1.3	5	50	35
4200	1.6	26	50	15.2	83	20.7	15	2.9	7	50	29	14.3	83	23.7	16.2	1.6	5	50	40
4200	1.6	27	50	15.7	83	22.5	15.6	3.1	7	50	34	14.9	83	25.5	16.8	1.9	5	50	46
4200	1.6	28	50	16.2	83	24.4	16.2	3.4	7	50	39	15.4	83	27.4	17.3	2.2	5	50	52
4800	1.83	24	50	14.6	82	18.3	15	2.6	7	50	24	13.8	82	21.5	16.2	1.3	5	50	34
4800	1.83	25	50	15.2	82	20.2	15.6	2.8	7	50	28	14.4	82	23.3	16.9	1.6	5	50	39
4800	1.83	26	50	15.7	82	22	16.3	3.1	7	50	33	14.9	82	25.2	17.5	1.8	5	50	45
4800	1.83	27	50	16.3	82	24	17	3.3	7	50	38	15.5	82	27.1	18.1	2.2	5	50	51
4800	1.83	28	50	16.8	82	26	17.6	3.6	7	50	44	16.1	82	29.1	18.8	2.5	5	50	58
5400	2.06	24	50	15	81	19.3	16.1	2.7	7	50	26	14.3	81	22.6	17.4	1.5	5	50	37
5400	2.06	25	50	15.6	81	21.2	16.8	3	7	50	31	14.9	81	24.6	18.1	1.7	5	50	43
5400	2.06	26	50	16.2	81	23.2	17.5	3.2	7	50	36	15.5	81	26.5	18.8	2.1	5	50	49
5400	2.06	27	50	16.8	81	25.2	18.2	3.5	7	50	42	16.1	81	28.6	19.4	2.4	5	50	56
5400	2.06	28	50	17.3	81	27.3	18.9	3.8	7	50	48	16.7	81	30.7	20.1	2.8	5	50	64
6000	2.29	24	50	15.4	80	20.2	17.1	2.8	7	50	28	14.7	80	23.7	18.5	1.6	5	50	40
6000	2.29	25	50	16	80	22.2	17.9	3.1	7	50	33	15.3	80	25.7	19.2	1.9	5	50	47
6000	2.29	26	50	16.6	80	24.3	18.6	3.4	7	50	39	15.9	80	27.8	19.9	2.3	5	50	53
6000	2.29	27	50	17.2	80	26.4	19.3	3.7	7	50	45	16.5	80	29.9	20.6	2.6	5	50	61
6000	2.29	28	50	17.8	80	28.6	20.1	4	7	50	52	17.2	80	32.1	21.3	3	5	50	69

UT1 - BATTERIA DI RISCALDAMENTO AD ACQUA
UT1 - WATER HEATING COILS

Tw 70 - 60°C																	
Pa m³/h	Va m/s	Tia °C	Tua °C	Qtot kW	3R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	4R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	6R Pw l/h	Vw m/s	DPw kPa
500	0.97	-5	51.6	10.4	912	1.22	17	58.2	11.6	1018	1.02	12	23.6	5.26	460	0.92	6
500	0.97	0	53	9.57	839	1.12	14	59.1	10.7	934	0.94	10	26.8	4.84	424	0.85	5
500	0.97	5	54.3	8.75	766	1.02	12	59.9	9.74	853	0.85	9	30	4.43	388	0.78	4
500	0.97	10	55.6	7.94	696	0.93	10	60.7	8.83	774	0.77	8	33.1	4.03	353	0.71	4
500	0.97	15	56.8	7.15	626	0.84	9	61.4	7.95	696	0.7	6	36.2	3.63	318	0.64	3
500	0.97	20	57.9	6.37	558	0.74	7	62.1	7.09	621	0.62	5	39.2	3.23	283	0.57	2
600	1.17	-5	49.4	12	1053	1.4	21	56.3	13.5	1186	1.19	16	21.1	5.77	505	1.01	7
600	1.17	0	51	11.1	968	1.29	18	57.4	12.4	1089	1.09	14	24.5	5.31	466	0.93	6
600	1.17	5	52.5	10.1	885	1.18	16	58.3	11.4	994	0.99	12	27.9	4.87	426	0.85	5
600	1.17	10	53.9	9.17	803	1.07	13	59.2	10.3	902	0.9	10	31.2	4.42	387	0.78	4
600	1.17	15	55.2	8.26	723	0.96	11	60.1	9.27	812	0.81	8	34.4	3.98	349	0.7	4
600	1.17	20	56.5	7.36	645	0.86	9	60.9	8.26	723	0.72	7	37.6	3.55	311	0.62	3
700	1.36	-5	47.5	13.5	1185	1.58	26	54.7	15.4	1346	1.35	20	19.2	6.22	545	1.09	8
700	1.36	0	49.2	12.5	1090	1.45	23	55.8	14.1	1236	1.24	17	22.7	5.74	502	1.01	7
700	1.36	5	50.8	11.4	997	1.33	19	56.9	12.9	1129	1.13	15	26.2	5.25	460	0.92	6
700	1.36	10	52.4	10.3	905	1.21	16	57.9	11.7	1024	1.02	12	29.6	4.78	418	0.84	5
700	1.36	15	53.8	9.3	815	1.09	14	58.9	10.5	922	0.92	10	32.9	4.3	377	0.75	4
700	1.36	20	55.2	8.29	727	0.97	11	59.8	9.38	822	0.82	8	36.3	3.83	336	0.67	3
800	1.56	-5	45.9	15	1312	1.75	31	53.2	17.1	1499	1.5	24	17.5	6.64	581	1.16	9
800	1.56	0	47.7	13.8	1207	1.61	27	54.4	15.7	1377	1.38	21	21.2	6.12	536	1.07	8
800	1.56	5	49.4	12.6	1103	1.47	23	55.6	14.4	1258	1.26	18	24.8	5.6	491	0.98	7
800	1.56	10	51	11.4	1002	1.34	20	56.8	13	1142	1.14	15	28.3	5.1	446	0.89	6
800	1.56	15	52.6	10.3	902	1.2	16	57.8	11.7	1028	1.03	12	31.8	4.59	402	0.8	5
800	1.56	20	54.1	9.18	804	1.07	13	58.8	10.5	916	0.92	10	35.2	4.09	358	0.72	4
900	1.75	-5	44.4	16.4	1433	1.91	37	51.8	18.8	1647	1.65	28	16.2	7.01	614	1.23	10
900	1.75	0	46.3	15.1	1318	1.76	32	53.2	17.3	1514	1.51	24	19.9	6.47	567	1.13	8
900	1.75	5	48.1	13.8	1205	1.61	27	54.5	15.8	1383	1.38	21	23.6	5.93	519	1.04	7
900	1.75	10	49.9	12.5	1095	1.46	23	55.7	14.3	1255	1.26	18	27.2	5.39	472	0.94	6
900	1.75	15	51.5	11.3	986	1.32	19	56.8	12.9	1129	1.13	15	30.8	4.85	425	0.85	5
900	1.75	20	53.1	10	879	1.17	16	57.9	11.5	1007	1.01	12	34.3	4.32	379	0.76	4
1000	1.95	-5	43.1	17.7	1549	2.07	42	50.5	20.4	1790	1.79	33	15	7.37	645	1.29	11
1000	1.95	0	45	16.3	1425	1.9	36	52	18.8	1645	1.65	28	18.8	6.79	595	1.19	9
1000	1.95	5	47	14.9	1303	1.74	31	53.4	17.2	1503	1.5	24	22.5	6.22	545	1.09	8
1000	1.95	10	48.8	13.5	1184	1.58	26	54.7	15.6	1364	1.37	20	26.2	5.66	496	0.99	7
1000	1.95	15	50.6	12.2	1066	1.42	22	55.9	14	1228	1.23	17	29.9	5.1	447	0.89	6
1000	1.95	20	52.3	10.9	951	1.27	18	57.1	12.5	1094	1.1	14	33.5	4.54	398	0.8	5

Tw 45 - 40°C																	
Pa m³/h	Va m/s	Tia °C	Tua °C	Qtot kW	3R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	4R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	6R Pw l/h	Vw m/s	DPw kPa
500	0.97	-5	33.1	7.01	1215	1.62	31	37.4	7.81	1353	1.35	22	14.3	3.55	616	1.23	11
500	0.97	0	34.4	6.21	1075	1.43	25	38.2	6.9	1196	1.2	18	17.4	3.15	546	1.09	9
500	0.97	5	35.5	5.42	938	1.25	20	38.9	6.02	1043	1.04	14	20.5	2.75	477	0.95	7
500	0.97	10	36.7	4.64	805	1.07	15	39.6	5.16	894	0.89	11	23.5	2.35	408	0.82	5
500	0.97	15	37.7	3.89	673	0.9	11	40.2	4.32	749	0.75	8	26.5	1.96	340	0.68	4
500	0.97	20	38.7	3.14	545	0.73	8	40.7	3.49	605	0.61	5	29.2	1.54	267	0.53	3
600	1.17	-5	31.7	8.1	1403	1.87	39	36.2	9.1	1577	1.58	29	12.7	3.9	676	1.35	13
600	1.17	0	33.1	7.17	1241	1.66	32	37.1	8.05	1394	1.4	24	16	3.46	599	1.2	10
600	1.17	5	34.4	6.25	1084	1.45	25	38	7.02	1216	1.22	19	19.2	3.02	523	1.05	8
600	1.17	10	35.6	5.36	929	1.24	19	38.8	6.02	1042	1.04	14	22.4	2.59	448	0.9	6
600	1.17	15	36.8	4.49	777	1.04	14	39.5	5.04	873	0.87	10	25.5	2.16	373	0.75	4
600	1.17	20	38	3.63	629	0.84	10	40.2	4.08	707	0.71	7	28.5	1.71	297	0.59	3
700	1.36	-5	30.4	9.12	1580	2.11	49	35.1	10.3	1790	1.79	37	11.4	4.21	730	1.46	15
700	1.36	0	31.9	8.07	1399	1.87	39	36.1	9.14	1583	1.58	29	14.8	3.73	647	1.29	12
700	1.36	5	33.4	7.05	1221	1.63	31	37.1	7.97	1381	1.38	23	18.1	3.26	565	1.13	9
700	1.36	10	34.8	6.04	1047	1.4	24	38	6.83	1184	1.18	18	21.4	2.79	484	0.97	7
700	1.36	15	36.1	5.06	876	1.17	17	38.9	5.72	991	0.99	13	24.7	2.33	403	0.81	5
700	1.36	20	37.3	4.09	708	0.94	12	39.6	4.63	802	0.8	9	27.9	1.87	323	0.65	3
800	1.56	-5	29.3	10.1	1749	2.33	58	34.1	11.5	1996	2	44	10.3	4.49	778	1.56	16
800	1.56	0	30.9	8.94	1549	2.07	47	35.3	10.2	1765	1.77	36	13.8	3.98	690	1.38	13
800	1.56	5	32.5	7.8	1352	1.8	37	36.3	8.89	1540	1.54	28	17.3	3.48	603	1.21	10
800	1.56	10	34	6.69	1159	1.55	28	37.3	7.62	1320	1.32	21	20.7	2.98	516	1.03	8
800	1.56	15	35.4	5.6	970	1.29	21	38.3	6.37	1105	1.11	16	24.1	2.48	430	0.86	6
800	1.56	20	36.8	4.52	784	1.05	14	39.2	5.16	894	0.89	11	27.4	1.99	345	0.69	4
900	1.75	-5	28.3	11	1911	2.55	68	33.2	12.7	2193	2.19	52	9.3	4.75	823	1.65	18
900	1.75	0	30	9.77	1693	2.26	55	34.4	11.2	1940	1.94	42	13	4.21	730	1.46	15
900	1.75	5	31.7	8.53	1478	1.97	43	35.6	9.77	1693	1.69	33	16.5	3.68	637	1.28	11
900	1.75	10	33.3	7.31	1267	1.69	33	36.7	8.37	1451	1.45	25	20	3.15	546	1.09	9
900	1.75	15	34.8	6.12	1060	1.41	24	37.7	7.01	1214	1.21	18	23.5	2.62	455	0.91	6
900	1.75	20	36.3	4.94	856	1.14	17	38.7	5.67	982	0.98	13	26.9	2.1	365	0.73	4
1000	1.95	-5	27.4	11.9	2067	2.76	78	32.4	13.8	2384	2.39	60	8.6	4.99	864	1.73	20
1000	1.95	0	29.2	10.6	1831	2.44	63	33.7	12.2	2110	2.11	49	12.2	4.42	766	1.53	16
1000	1.95	5	31	9.22	1598	2.13	50	34.9	10.6	1841	1.84	38	15.9	3.86	669	1.34	12
1000	1.95	10	32.7	7.91	1370	1.83	38	36.1	9.1	1578	1.58	29	19.5	3.31	573	1.15	10
1000	1.95	15	34.3	6.61	1146	1.53	28	37.2	7.62	1320	1.32	21	23.1	2.76	478	0.96	7
1000	1.95	20	35.9	5.34	925	1.23	19	38.3	6.16	1067	1.07	15	26.6	2.21	383	0.77	5

UT2 - BATTERIA DI RISCALDAMENTO AD ACQUA
UT2 - WATER HEATING COILS

Tw 70 - 60°C																	
Pa m ³ /h	Va m/s	Tia °C	Tua °C	Qtot kW	3R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	4R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	6R Pw l/h	Vw m/s	DPw kPa
800	1.33	-5	47.7	15.5	1359	1.36	17	54.9	17.6	1543	1.24	15	19.3	7.16	627	1.26	11
800	1.33	0	49.3	14.3	1249	1.25	15	56	16.2	1417	1.13	13	22.9	6.61	579	1.16	10
800	1.33	5	50.9	13	1141	1.14	12	57.1	14.8	1294	1.04	11	26.3	6.05	530	1.06	8
800	1.33	10	52.4	11.8	1036	1.04	11	58.1	13.4	1174	0.94	9	29.8	5.51	482	0.97	7
800	1.33	15	53.9	10.7	933	0.93	9	59	12.1	1057	0.85	8	33.1	4.96	435	0.87	6
800	1.33	20	55.2	9.49	831	0.83	7	59.9	10.8	942	0.75	6	36.4	4.42	388	0.78	5
900	1.49	-5	46.2	17	1486	1.49	20	53.6	19.4	1698	1.36	18	17.9	7.58	664	1.33	12
900	1.49	0	48	15.6	1366	1.37	17	54.8	17.8	1560	1.25	16	21.5	6.99	613	1.23	11
900	1.49	5	49.7	14.3	1249	1.25	15	56	16.3	1425	1.14	13	25.1	6.41	561	1.12	9
900	1.49	10	51.3	12.9	1134	1.13	12	57.1	14.8	1292	1.03	11	28.6	5.83	511	1.02	8
900	1.49	15	52.8	11.7	1021	1.02	10	58.1	13.3	1163	0.93	9	32.1	5.26	460	0.92	6
900	1.49	20	54.3	10.4	910	0.91	8	59.1	11.8	1037	0.83	8	35.5	4.69	410	0.82	5
1000	1.66	-5	44.9	18.4	1608	1.61	23	52.3	21.1	1848	1.48	21	16.7	7.97	698	1.4	13
1000	1.66	0	46.8	16.9	1479	1.48	20	53.7	19.4	1698	1.36	18	20.4	7.35	644	1.29	12
1000	1.66	5	48.5	15.4	1352	1.35	17	54.9	17.7	1551	1.24	15	24	6.74	590	1.18	10
1000	1.66	10	50.2	14	1228	1.23	14	56.1	16.1	1407	1.13	13	27.6	6.13	537	1.07	8
1000	1.66	15	51.9	12.6	1105	1.11	12	57.2	14.5	1266	1.01	11	31.1	5.53	484	0.97	7
1000	1.66	20	53.4	11.2	985	0.99	10	58.3	12.9	1129	0.9	9	34.6	4.93	432	0.86	6
1100	1.82	-5	43.7	19.7	1726	1.73	26	51.2	22.8	1993	1.6	24	15.6	8.33	730	1.46	14
1100	1.82	0	45.6	18.1	1588	1.59	22	52.6	20.9	1832	1.47	21	19.4	7.69	673	1.35	12
1100	1.82	5	47.5	16.6	1452	1.45	19	54	19.1	1673	1.34	18	23.1	7.05	617	1.24	11
1100	1.82	10	49.3	15.1	1318	1.32	16	55.2	17.3	1518	1.22	15	26.7	6.41	562	1.12	9
1100	1.82	15	51	13.6	1187	1.19	13	56.4	15.6	1366	1.09	12	30.3	5.78	506	1.01	8
1100	1.82	20	52.6	12.1	1058	1.06	11	57.6	13.9	1218	0.97	10	33.9	5.15	451	0.9	6
1200	1.99	-5	42.6	21	1841	1.84	29	50.2	24.4	2134	1.71	27	14.6	8.67	760	1.52	15
1200	1.99	0	44.6	19.3	1693	1.69	25	51.7	22.4	1961	1.57	23	18.5	8	701	1.4	13
1200	1.99	5	46.5	17.7	1548	1.55	21	53.1	20.5	1792	1.43	20	22.2	7.34	643	1.29	11
1200	1.99	10	48.4	16.1	1406	1.41	18	54.4	18.6	1626	1.3	17	26	6.68	585	1.17	10
1200	1.99	15	50.2	14.5	1266	1.27	15	55.7	16.7	1464	1.17	14	29.6	6.02	527	1.05	8
1200	1.99	20	51.9	12.9	1128	1.13	12	56.9	14.9	1304	1.04	11	33.3	5.37	470	0.94	7
1300	2.16	-5	41.6	22.3	1951	1.95	32	49.2	25.9	2272	1.82	30	13.8	9	788	1.58	16
1300	2.16	0	43.7	20.5	1795	1.8	28	50.8	23.8	2088	1.67	26	17.7	8.3	727	1.46	14
1300	2.16	5	45.7	18.8	1642	1.64	24	52.2	21.8	1908	1.53	22	21.5	7.61	667	1.33	12
1300	2.16	10	47.6	17	1491	1.49	20	53.6	19.8	1731	1.39	19	25.3	6.92	607	1.21	10
1300	2.16	15	49.4	15.3	1342	1.34	17	55	17.8	1558	1.25	16	29	6.24	547	1.09	9
1300	2.16	20	51.2	13.7	1196	1.2	14	56.2	15.9	1389	1.11	13	32.7	5.57	488	0.98	7

Tw 45 - 40°C																	
Pa m ³ /h	Va m/s	Tia °C	Tua °C	Qtot kW	3R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	4R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	6R Pw l/h	Vw m/s	DPw kPa
800	1.33	-5	30.5	10.5	1811	1.81	31	35.3	11.9	2053	1.64	28	11.5	4.85	840	1.68	20
800	1.33	0	32	9.25	1602	1.6	25	36.3	10.5	1816	1.45	23	14.9	4.3	745	1.49	17
800	1.33	5	33.4	8.07	1398	1.4	20	37.2	9.14	1584	1.27	18	18.2	3.76	651	1.3	13
800	1.33	10	34.8	6.91	1198	1.2	15	38.1	7.83	1357	1.09	14	21.6	3.22	558	1.12	10
800	1.33	15	36.1	5.78	1002	1	11	38.9	6.55	1136	0.91	10	24.8	2.69	466	0.93	7
800	1.33	20	37.3	4.67	809	0.81	8	39.7	5.3	919	0.74	7	28	2.16	375	0.75	5
900	1.49	-5	29.5	11.4	1981	1.98	36	34.4	13	2260	1.81	33	10.5	5.13	890	1.78	23
900	1.49	0	31.1	10.1	1754	1.75	29	35.5	11.5	1999	1.6	27	14	4.55	789	1.58	18
900	1.49	5	32.7	8.83	1530	1.53	23	36.5	10.1	1744	1.4	21	17.5	3.98	690	1.38	14
900	1.49	10	34.1	7.57	1311	1.31	18	37.5	8.62	1494	1.2	16	20.9	3.41	591	1.18	11
900	1.49	15	35.5	6.32	1096	1.1	13	38.4	7.21	1250	1	12	24.2	2.85	493	0.99	8
900	1.49	20	36.9	5.1	885	0.89	9	39.3	5.83	1011	0.81	8	27.6	2.29	397	0.79	6
1000	1.66	-5	28.6	12.4	2145	2.15	42	33.6	14.2	2460	1.97	38	9.7	5.4	935	1.87	25
1000	1.66	0	30.3	11	1899	1.9	34	34.8	12.6	2176	1.74	31	13.3	4.79	830	1.66	20
1000	1.66	5	32	9.56	1657	1.66	27	35.9	11	1898	1.52	24	16.8	4.19	725	1.45	16
1000	1.66	10	33.5	8.19	1420	1.42	20	36.9	9.39	1626	1.3	19	20.3	3.59	622	1.24	12
1000	1.66	15	35	6.85	1186	1.19	15	37.9	7.85	1360	1.09	14	23.7	2.99	519	1.04	9
1000	1.66	20	36.4	5.52	957	0.96	10	38.9	6.35	1100	0.88	9	27.1	2.41	417	0.83	6
1100	1.82	-5	27.8	13.3	2303	2.3	47	32.9	15.3	2654	2.12	44	8.9	5.64	978	1.96	27
1100	1.82	0	29.6	11.8	2039	2.04	38	34.1	13.6	2348	1.88	35	12.6	5.01	868	1.74	22
1100	1.82	5	31.3	10.3	1780	1.78	30	35.3	11.8	2049	1.64	28	16.2	4.38	758	1.52	17
1100	1.82	10	33	8.8	1525	1.53	23	36.4	10.1	1755	1.4	21	19.8	3.75	650	1.3	13
1100	1.82	15	34.5	7.35	1274	1.27	17	37.5	8.47	1468	1.17	16	23.3	3.13	542	1.09	10
1100	1.82	20	36	5.93	1028	1.03	12	38.5	6.85	1186	0.95	11	26.8	2.52	436	0.87	6
1200	1.99	-5	27.1	14.2	2456	2.46	53	32.2	16.4	2843	2.28	50	8.3	5.88	1018	2.04	29
1200	1.99	0	29	12.6	2175	2.18	43	33.5	14.5	2516	2.01	40	12	5.21	903	1.81	23
1200	1.99	5	30.7	11	1898	1.9	34	34.8	12.7	2195	1.76	31	15.7	4.56	790	1.58	18
1200	1.99	10	32.4	9.38	1626	1.63	26	35.9	10.9	1880	1.51	24	19.3	3.91	677	1.35	14
1200	1.99	15	34.1	7.84	1359	1.36	19	37.1	9.07	1572	1.26	18	22.9	3.26	565	1.13	10
1200	1.99	20	35.7	6.32	1095	1.1	13	38.1	7.33	1270	1.02	12	26.5	2.62	454	0.91	7
1300	2.16	-5	26.4	15	2605	2.61	59	31.5	17.5	3027	2.42	55	7.7	6.09	1056	2.11	31
1300	2.16	0	28.3	13.3	2306	2.31	48	32.9	15.5	2678	2.14	45	11.5	5.41	937	1.88	25
1300	2.16	5	30.2	11.6	2013	2.01	37	34.2	13.5	2337	1.87	35	15.3	4.73	819	1.64	20
1300	2.16	10	32	9.95	1724	1.73	29	35.5	11.6	2002	1.6	27	18.9	4.05	702	1.4	15
1300	2.16	15	33.7	8.31	1441	1.44	21	36.7	9.66	1674	1.34	20	22.6	3.38	586	1.17	11
1300	2.16	20	35.3	6.7	1162	1.16	14	37.8	7.8	1352	1.08	13	26.2	2.72	471	0.94	7

UT3 - BATTERIA DI RISCALDAMENTO AD ACQUA
UT3 - WATER HEATING COILS

Tw 70 - 60°C																	
Pa m³/h	Va m/s	Tia °C	Tua °C	Qtot kW	3R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	4R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	6R Pw l/h	Vw m/s	DPw kPa
1050	1.34	-5	47.6	20.3	1781	1.43	18	55.1	23.2	2034	1.63	30	19	9.27	812	1.62	20
1050	1.34	0	49.3	18.7	1637	1.31	15	56.3	21.3	1869	1.5	26	22.5	8.55	749	1.5	18
1050	1.34	5	50.9	17.1	1496	1.2	13	57.3	19.5	1708	1.37	22	26.1	7.84	687	1.37	15
1050	1.34	10	52.4	15.5	1358	1.09	11	58.4	17.7	1550	1.24	19	29.5	7.14	625	1.25	13
1050	1.34	15	53.8	14	1223	0.98	9	59.3	15.9	1395	1.12	15	32.9	6.44	564	1.13	11
1050	1.34	20	55.2	12.5	1090	0.87	8	60.2	14.2	1245	1	13	36.3	5.75	503	1.01	9
1200	1.53	-5	46	22.5	1971	1.58	21	53.6	25.9	2268	1.82	36	17.4	9.88	865	1.73	23
1200	1.53	0	47.7	20.7	1812	1.45	18	54.9	23.8	2084	1.67	31	21	9.12	799	1.6	20
1200	1.53	5	49.4	18.9	1657	1.33	16	56.1	21.7	1904	1.52	27	24.6	8.36	732	1.47	17
1200	1.53	10	51.1	17.2	1504	1.2	13	57.2	19.7	1728	1.38	22	28.2	7.61	667	1.33	15
1200	1.53	15	52.6	15.5	1354	1.08	11	58.2	17.8	1556	1.25	19	31.7	6.87	602	1.2	12
1200	1.53	20	54.1	13.8	1207	0.97	9	59.2	15.9	1388	1.11	15	35.2	6.13	537	1.07	10
1350	1.72	-5	44.5	24.6	2152	1.72	25	52.3	28.5	2492	2	43	16	10.4	915	1.83	25
1350	1.72	0	46.4	22.6	1980	1.58	21	53.6	26.2	2291	1.83	37	19.8	9.64	844	1.69	22
1350	1.72	5	48.2	20.7	1810	1.45	18	54.9	23.9	2093	1.68	31	23.5	8.84	774	1.55	19
1350	1.72	10	49.9	18.8	1644	1.32	15	56.1	21.7	1901	1.52	26	27.1	8.05	705	1.41	16
1350	1.72	15	51.6	16.9	1480	1.18	13	57.3	19.5	1712	1.37	22	30.7	7.26	636	1.27	13
1350	1.72	20	53.1	15.1	1319	1.06	10	58.4	17.4	1526	1.22	18	34.3	6.48	568	1.14	11
1500	1.92	-5	43.1	26.6	2327	1.86	28	51	30.9	2709	2.17	49	14.9	11	960	1.92	27
1500	1.92	0	45.1	24.4	2141	1.71	24	52.5	28.4	2490	1.99	42	18.7	10.1	886	1.77	24
1500	1.92	5	47	22.4	1958	1.57	21	53.8	26	2276	1.82	36	22.5	9.29	813	1.63	21
1500	1.92	10	48.8	20.3	1778	1.42	18	55.1	23.6	2067	1.65	31	26.2	8.46	740	1.48	17
1500	1.92	15	50.6	18.3	1601	1.28	15	56.4	21.3	1861	1.49	26	29.9	7.63	668	1.34	15
1500	1.92	20	52.3	16.3	1427	1.14	12	57.5	19	1660	1.33	21	33.5	6.81	597	1.19	12
1650	2.11	-5	41.9	28.5	2495	2	32	49.9	33.3	2919	2.34	56	13.9	11.5	1003	2.01	30
1650	2.11	0	44	26.2	2296	1.84	28	51.4	30.6	2684	2.15	48	17.7	10.6	926	1.85	26
1650	2.11	5	46	24	2100	1.68	24	52.9	28	2454	1.96	41	21.6	9.7	849	1.7	22
1650	2.11	10	47.9	21.8	1907	1.53	20	54.2	25.4	2228	1.78	35	25.4	8.83	774	1.55	19
1650	2.11	15	49.7	19.6	1717	1.37	17	55.6	22.9	2007	1.61	29	29.1	7.97	698	1.4	16
1650	2.11	20	51.5	17.5	1531	1.23	14	56.8	20.4	1790	1.43	24	32.8	7.12	623	1.25	13
1800	2.3	-5	40.8	30.4	2658	2.13	36	48.8	35.7	3123	2.5	63	13	11.9	1043	2.09	32
1800	2.3	0	43	27.9	2446	1.96	31	50.4	32.8	2872	2.3	55	16.9	11	963	1.93	28
1800	2.3	5	45	25.6	2237	1.79	26	52	30	2626	2.1	47	20.8	10.1	884	1.77	24
1800	2.3	10	47	23.2	2032	1.63	22	53.4	27.2	2385	1.91	39	24.6	9.19	805	1.61	20
1800	2.3	15	48.9	20.9	1830	1.46	19	54.8	24.5	2148	1.72	33	28.5	8.29	726	1.45	17
1800	2.3	20	50.7	18.6	1631	1.31	15	56.1	21.9	1916	1.53	27	32.2	7.4	648	1.3	14

Tw 45 - 40°C																	
Pa m³/h	Va m/s	Tia °C	Tua °C	Qtot kW	3R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	4R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	6R Pw l/h	Vw m/s	DPw kPa
1050	1.34	-5	30.5	13.7	2373	1.9	33	35.4	15.6	2707	2.17	55	11.2	6.27	1087	2.18	38
1050	1.34	0	32	12.1	2101	1.68	26	36.4	13.8	2395	1.92	44	14.7	5.57	965	1.93	31
1050	1.34	5	33.4	10.6	1833	1.47	21	37.4	12.1	2090	1.67	35	18.1	4.87	844	1.69	24
1050	1.34	10	34.8	9.07	1571	1.26	16	38.3	10.4	1793	1.44	27	21.4	4.18	725	1.45	19
1050	1.34	15	36.1	7.58	1314	1.05	12	39.1	8.67	1502	1.2	20	24.7	3.5	606	1.21	14
1050	1.34	20	37.3	6.12	1061	0.85	8	39.9	7.03	1218	0.97	14	28	2.82	488	0.98	9
1200	1.53	-5	29.4	15.2	2628	2.1	39	34.4	17.4	3018	2.42	66	10.2	6.69	1159	2.32	43
1200	1.53	0	31	13.4	2326	1.86	32	35.6	15.4	2671	2.14	54	13.7	5.94	1029	2.06	35
1200	1.53	5	32.5	11.7	2030	1.63	25	36.6	13.5	2331	1.87	42	17.2	5.2	901	1.8	27
1200	1.53	10	34	10	1740	1.39	19	37.6	11.5	2000	1.6	32	20.7	4.46	773	1.55	21
1200	1.53	15	35.4	8.39	1454	1.16	14	38.5	9.67	1675	1.34	24	24.1	3.73	646	1.29	15
1200	1.53	20	36.8	6.78	1175	0.94	10	39.4	7.83	1357	1.09	16	27.4	3.01	521	1.04	10
1350	1.72	-5	28.4	16.6	2872	2.3	46	33.6	19.2	3319	2.66	78	9.2	7.07	1225	2.45	47
1350	1.72	0	30.1	14.7	2542	2.04	37	34.8	17	2937	2.35	63	12.9	6.28	1088	2.18	38
1350	1.72	5	31.7	12.8	2219	1.78	29	35.9	14.8	2564	2.05	50	16.5	5.5	952	1.91	30
1350	1.72	10	33.3	11	1901	1.52	22	37	12.7	2199	1.76	38	20	4.72	817	1.64	23
1350	1.72	15	34.8	9.17	1589	1.27	16	38	10.6	1842	1.47	28	23.5	3.94	683	1.37	17
1350	1.72	20	36.3	7.4	1283	1.03	11	38.9	8.61	1492	1.19	19	27	3.18	551	1.1	12
1500	1.92	-5	27.5	17.9	3105	2.49	52	32.7	20.8	3609	2.89	91	8.5	7.43	1287	2.58	51
1500	1.92	0	29.3	15.9	2750	2.2	42	34	18.4	3194	2.56	73	12.2	6.6	1143	2.29	42
1500	1.92	5	31	13.9	2400	1.92	33	35.3	16.1	2789	2.23	58	15.8	5.77	1000	2	33
1500	1.92	10	32.7	11.9	2057	1.65	25	36.4	13.8	2392	1.91	44	19.5	4.95	858	1.72	25
1500	1.92	15	34.3	9.92	1719	1.38	19	37.5	11.6	2003	1.6	32	23.1	4.14	718	1.44	18
1500	1.92	20	35.9	8	1387	1.11	13	38.5	9.36	1622	1.3	22	26.6	3.34	578	1.16	13
1650	2.11	-5	26.7	19.2	3331	2.67	59	32	22.5	3889	3.11	103	7.8	7.76	1344	2.69	55
1650	2.11	0	28.6	17	2949	2.36	48	33.3	19.9	3444	2.76	84	11.6	6.89	1194	2.39	45
1650	2.11	5	30.4	14.9	2575	2.06	38	34.6	17.4	3007	2.41	66	15.3	6.03	1045	2.09	35
1650	2.11	10	32.1	12.7	2206	1.77	29	35.9	14.9	2579	2.06	50	19	5.18	897	1.79	27
1650	2.11	15	33.8	10.6	1844	1.48	21	37.1	12.5	2159	1.73	37	22.7	4.33	750	1.5	20
1650	2.11	20	35.5	8.58	1487	1.19	14	38.2	10.1	1748	1.4	25	26.3	3.49	604	1.21	14
1800	2.3	-5	25.9	20.5	3549	2.84	66	31.3	24	4162	3.33	116	7.2	8.07	1398	2.8	59
1800	2.3	0	27.9	18.1	3143	2.52	53	32.7	21.3	3685	2.95	94	11	7.17	1242	2.48	48
1800	2.3	5	29.8	15.8	2743	2.2	42	34.1	18.6	3218	2.58	74	14.8	6.27	1087	2.17	38
1800	2.3	10	31.6	13.6	2351	1.88	32	35.4	15.9	2760	2.21	57	18.6	5.38	933	1.87	29
1800	2.3	15	33.4	11.3	1964	1.57	23	36.6	13.3	2311	1.85	42	22.3	4.5	780	1.56	21
1800	2.3	20	35.1	9.14	1584	1.27	16	37.8	10.8	1870	1.5	29	26	3.63	628	1.26	15

UT4 - BATTERIA DI RISCALDAMENTO AD ACQUA

UT4 - WATER HEATING COILS

Tw 70 - 60°C																	
Pa m ³ /h	Va m/s	Tia °C	Tua °C	Qtot kW	3R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	4R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	6R Pw l/h	Vw m/s	DPw kPa
1200	1.24	-5	48.6	23.7	2073	1.38	19	55.6	26.7	2342	1.17	14	21.1	11.5	1008	1.01	6
1200	1.24	0	50.2	21.8	1905	1.27	16	56.7	24.6	2151	1.08	12	24.5	10.6	929	0.93	5
1200	1.24	5	51.7	19.9	1742	1.16	14	57.7	22.4	1964	0.98	10	27.8	9.71	851	0.85	4
1200	1.24	10	53.2	18.1	1581	1.05	12	58.6	20.3	1782	0.89	9	31.1	8.82	773	0.77	4
1200	1.24	15	54.6	16.3	1423	0.95	10	59.5	18.3	1603	0.8	7	34.3	7.95	696	0.7	3
1200	1.24	20	55.9	14.5	1269	0.85	8	60.4	16.3	1429	0.71	6	37.5	7.07	620	0.62	3
1400	1.45	-5	46.7	26.6	2332	1.56	23	53.9	30.3	2656	1.33	17	19	12.4	1085	1.09	7
1400	1.45	0	48.4	24.5	2144	1.43	20	55.1	27.9	2440	1.22	15	22.6	11.4	1000	1	6
1400	1.45	5	50.1	22.4	1961	1.31	17	56.2	25.4	2228	1.11	13	26.1	10.5	916	0.92	5
1400	1.45	10	51.7	20.3	1780	1.19	14	57.3	23.1	2021	1.01	11	29.5	9.5	832	0.83	4
1400	1.45	15	53.2	18.3	1603	1.07	12	58.3	20.8	1819	0.91	9	32.9	8.56	750	0.75	4
1400	1.45	20	54.6	16.3	1429	0.95	10	59.3	18.5	1621	0.81	7	36.2	7.62	667	0.67	3
1600	1.66	-5	45	29.4	2579	1.72	27	52.3	33.8	2957	1.48	21	17.4	13.2	1155	1.16	8
1600	1.66	0	46.9	27.1	2372	1.58	24	53.7	31	2717	1.36	18	21	12.2	1065	1.07	7
1600	1.66	5	48.6	24.8	2169	1.45	20	54.9	28.3	2481	1.24	15	24.6	11.1	975	0.98	6
1600	1.66	10	50.3	22.5	1969	1.31	17	56.1	25.7	2251	1.13	13	28.1	10.1	886	0.89	5
1600	1.66	15	52	20.3	1773	1.18	14	57.2	23.1	2026	1.01	11	31.6	9.11	798	0.8	4
1600	1.66	20	53.5	18.1	1581	1.05	12	58.3	20.6	1806	0.9	9	35.1	8.11	711	0.71	3
1800	1.87	-5	43.5	32.1	2814	1.88	32	51	37.1	3246	1.62	25	16	13.9	1219	1.22	8
1800	1.87	0	45.5	29.6	2589	1.73	27	52.4	34.1	2983	1.49	21	19.7	12.8	1124	1.12	7
1800	1.87	5	47.3	27	2368	1.58	23	53.7	31.1	2725	1.36	18	23.4	11.8	1029	1.03	6
1800	1.87	10	49.1	24.6	2150	1.43	20	55	28.2	2473	1.24	15	27	10.7	936	0.94	5
1800	1.87	15	50.9	22.1	1936	1.29	16	56.2	25.4	2225	1.11	13	30.6	9.62	843	0.84	4
1800	1.87	20	52.5	19.7	1726	1.15	13	57.4	22.6	1983	0.99	10	34.1	8.57	750	0.75	4
2000	2.07	-5	42.2	34.7	3041	2.03	36	49.7	40.3	3525	1.76	28	14.8	14.6	1278	1.28	9
2000	2.07	0	44.2	32	2798	1.87	31	51.2	37	3240	1.62	25	18.6	13.5	1178	1.18	8
2000	2.07	5	46.2	29.2	2559	1.71	27	52.6	33.8	2961	1.48	21	22.4	12.3	1080	1.08	7
2000	2.07	10	48.1	26.5	2324	1.55	23	54	30.7	2687	1.34	18	26.1	11.2	981	0.98	6
2000	2.07	15	49.9	23.9	2093	1.4	19	55.3	27.6	2418	1.21	15	29.7	10.1	884	0.88	5
2000	2.07	20	51.6	21.3	1866	1.24	15	56.5	24.6	2155	1.08	12	33.3	8.98	787	0.79	4
2200	2.28	-5	41	37.2	3259	2.17	41	48.5	43.3	3796	1.9	32	13.8	15.2	1333	1.33	10
2200	2.28	0	43.1	34.2	2999	2	35	50.1	39.8	3489	1.75	28	17.7	14	1230	1.23	9
2200	2.28	5	45.1	31.3	2743	1.83	30	51.6	36.4	3188	1.6	24	21.5	12.9	1126	1.13	7
2200	2.28	10	47.1	28.5	2492	1.66	26	53.1	33	2894	1.45	20	25.3	11.7	1024	1.02	6
2200	2.28	15	49	25.6	2244	1.5	21	54.5	29.7	2605	1.3	17	29	10.5	922	0.92	5
2200	2.28	20	50.8	22.8	2000	1.33	17	55.8	26.5	2321	1.16	14	32.7	9.38	821	0.82	4

Tw 45 - 40°C																	
Pa m ³ /h	Va m/s	Tia °C	Tua °C	Qtot kW	3R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	4R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	6R Pw l/h	Vw m/s	DPw kPa
1200	1.24	-5	31.1	15.9	2762	1.84	34	35.7	18	3115	1.56	26	12.6	7.79	1350	1.35	11
1200	1.24	0	32.6	14.1	2445	1.63	28	36.7	15.9	2755	1.38	21	15.9	6.9	1196	1.2	9
1200	1.24	5	33.9	12.3	2133	1.42	22	37.6	13.9	2403	1.2	16	19.2	6.02	1044	1.04	7
1200	1.24	10	35.2	10.6	1828	1.22	17	38.4	11.9	2059	1.03	12	22.3	5.15	893	0.89	5
1200	1.24	15	36.5	8.83	1529	1.02	12	39.2	9.94	1723	0.86	9	25.4	4.29	744	0.74	4
1200	1.24	20	37.7	7.13	1236	0.82	8	39.9	8.05	1394	0.7	6	28.4	3.39	588	0.59	3
1400	1.45	-5	29.8	17.9	3109	2.07	42	34.6	20.4	3535	1.77	32	11.3	8.39	1453	1.45	13
1400	1.45	0	31.4	15.9	2753	1.84	34	35.7	18	3126	1.56	26	14.7	7.43	1288	1.29	10
1400	1.45	5	32.9	13.9	2402	1.6	27	36.7	15.7	2727	1.36	20	18.1	6.49	1124	1.12	8
1400	1.45	10	34.4	11.9	2059	1.37	20	37.6	13.5	2336	1.17	15	21.4	5.55	962	0.96	6
1400	1.45	15	35.7	9.94	1722	1.15	15	38.5	11.3	1955	0.98	11	24.6	4.62	801	0.8	4
1400	1.45	20	37	8.03	1391	0.93	10	39.4	9.12	1581	0.79	8	27.8	3.69	640	0.64	3
1600	1.66	-5	28.7	19.9	3440	2.29	50	33.6	22.7	3936	1.97	38	10.2	8.93	1547	1.55	14
1600	1.66	0	30.4	17.6	3045	2.03	41	34.8	20.1	3482	1.74	31	13.7	7.91	1371	1.37	11
1600	1.66	5	32	15.3	2658	1.77	32	35.9	17.5	3037	1.52	24	17.2	6.91	1197	1.2	9
1600	1.66	10	33.6	13.2	2278	1.52	24	36.9	15	2602	1.3	19	20.6	5.91	1024	1.02	7
1600	1.66	15	35.1	11	1905	1.27	18	37.9	12.6	2177	1.09	14	24	4.92	853	0.85	5
1600	1.66	20	36.5	8.87	1538	1.03	12	38.9	10.2	1760	0.88	9	27.3	3.94	683	0.68	3
1800	1.87	-5	27.7	21.7	3755	2.51	59	32.7	25	4324	2.16	45	9.2	9.42	1633	1.63	16
1800	1.87	0	29.5	19.2	3325	2.22	47	34	22.1	3825	1.91	37	12.8	8.35	1447	1.45	13
1800	1.87	5	31.2	16.8	2903	1.94	37	35.2	19.3	3337	1.67	29	16.4	7.29	1263	1.26	10
1800	1.87	10	32.9	14.4	2488	1.66	28	36.3	16.5	2859	1.43	22	19.9	6.24	1081	1.08	8
1800	1.87	15	34.5	12	2080	1.39	21	37.4	13.8	2390	1.2	16	23.4	5.19	900	0.9	5
1800	1.87	20	36	9.69	1679	1.12	14	38.4	11.2	1932	0.97	11	26.9	4.16	720	0.72	4
2000	2.07	-5	26.8	23.4	4059	2.71	67	31.8	27.1	4697	2.35	52	8.4	9.88	1712	1.71	17
2000	2.07	0	28.7	20.7	3594	2.4	54	33.2	24	4156	2.08	42	12.1	8.76	1518	1.52	14
2000	2.07	5	30.5	18.1	3138	2.09	43	34.5	20.9	3626	1.81	33	15.8	7.65	1325	1.33	11
2000	2.07	10	32.3	15.5	2689	1.79	33	35.7	17.9	3106	1.55	25	19.4	6.54	1134	1.13	8
2000	2.07	15	33.9	13	2248	1.5	24	36.9	15	2597	1.3	19	23	5.45	944	0.94	6
2000	2.07	20	35.6	10.5	1814	1.21	16	38	12.1	2098	1.05	13	26.5	4.36	755	0.76	4
2000	2.28	-5	26	25.1	4351	2.9	76	31.1	29.2	5059	2.53	60	7.7	10.3	1787	1.79	18
2200	2.28	0	28	22.2	3853	2.57	61	32.5	25.8	4476	2.24	48	11.5	9.14	1584	1.59	15
2200	2.28	5	29.9	19.4	3364	2.24	48	33.9	22.5	3905	1.95	38	15.2	7.98	1383	1.38	12
2200	2.28	10	31.7	16.6	2883	1.92	37	35.2	19.3	3346	1.67	29	18.9	6.83	1183	1.18	9
2200	2.28	15	33.5	13.9	2410	1.61	27	36.4	16.1	2797	1.4	21	22.5	5.68	985	0.99	6
2200	2.28	20	35.2	11.2	1944	1.3	18	37.6	13	2258	1.13	15	26.1	4.55	788	0.79	4

UT5 - BATTERIA DI RISCALDAMENTO AD ACQUA
UT5 - WATER HEATING COILS

Tw 70 - 60°C																	
Pa m³/h	Va m/s	Tia °C	Tua °C	Qtot kW	3R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	4R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	6R Pw l/h	Vw m/s	DPw kPa
1500	1.2	-5	49	29.8	2611	1.31	15	56.3	33.9	2965	1.48	25	21.4	14.6	1276	1.28	11
1500	1.2	0	50.6	27.4	2400	1.2	13	57.4	31.1	2724	1.36	22	24.8	13.4	1176	1.18	9
1500	1.2	5	52.1	25.1	2194	1.1	11	58.4	28.4	2488	1.24	19	28.1	12.3	1078	1.08	8
1500	1.2	10	53.5	22.7	1991	1	9	59.3	25.8	2258	1.13	16	31.4	11.2	981	0.98	7
1500	1.2	15	54.8	20.5	1793	0.9	8	60.2	23.2	2033	1.02	13	34.6	10.1	884	0.88	6
1500	1.2	20	56.1	18.2	1598	0.8	6	61	20.7	1813	0.91	11	37.8	9	788	0.79	5
1750	1.4	-5	47.1	33.6	2939	1.47	19	54.7	38.4	3365	1.68	32	19.4	15.7	1373	1.37	12
1750	1.4	0	48.8	30.9	2703	1.35	16	55.9	35.3	3092	1.55	27	22.9	14.5	1267	1.27	11
1750	1.4	5	50.4	28.2	2471	1.24	14	57	32.3	2825	1.41	23	26.4	13.3	1161	1.16	9
1750	1.4	10	52	25.6	2243	1.12	12	58	29.3	2564	1.28	20	29.8	12.1	1056	1.06	8
1750	1.4	15	53.5	23.1	2019	1.01	10	59	26.4	2309	1.16	16	33.1	10.9	952	0.95	6
1750	1.4	20	54.9	20.6	1800	0.9	8	59.9	23.5	2059	1.03	13	36.5	9.69	849	0.85	5
2000	1.6	-5	45.4	37.1	3251	1.63	22	53.2	42.8	3749	1.88	38	17.7	16.7	1462	1.46	14
2000	1.6	0	47.3	34.1	2990	1.5	19	54.5	39.3	3446	1.72	33	21.3	15.4	1349	1.35	12
2000	1.6	5	49	31.2	2734	1.37	16	55.7	36	3149	1.58	28	24.9	14.1	1236	1.24	10
2000	1.6	10	50.7	28.3	2482	1.24	14	56.8	32.6	2858	1.43	24	28.4	12.8	1125	1.13	9
2000	1.6	15	52.3	25.5	2235	1.12	12	57.9	29.4	2574	1.29	20	31.9	11.6	1014	1.01	7
2000	1.6	20	53.8	22.7	1992	1	9	58.9	26.2	2295	1.15	16	35.3	10.3	904	0.9	6
2250	1.8	-5	44	40.5	3550	1.78	26	51.8	47	4119	2.06	45	16.3	17.6	1543	1.54	15
2250	1.8	0	45.9	37.3	3266	1.63	22	53.2	43.2	3786	1.89	39	20	16.3	1424	1.42	13
2250	1.8	5	47.7	34.1	2986	1.49	19	54.5	39.5	3461	1.73	33	23.7	14.9	1306	1.31	11
2250	1.8	10	49.5	31	2711	1.36	16	55.8	35.9	3142	1.57	28	27.3	13.6	1188	1.19	9
2250	1.8	15	51.2	27.9	2441	1.22	14	56.9	32.3	2829	1.42	23	30.9	12.2	1071	1.07	8
2250	1.8	20	52.8	24.8	2176	1.09	11	58	28.8	2523	1.26	19	34.4	10.9	955	0.96	6
2500	2	-5	42.6	43.8	3837	1.92	30	50.6	51.1	4476	2.24	52	15.1	18.5	1619	1.62	16
2500	2	0	44.6	40.3	3530	1.77	26	52	47	4115	2.06	45	18.9	17.1	1494	1.49	14
2500	2	5	46.6	36.9	3228	1.62	22	53.4	43	3762	1.88	38	22.6	15.6	1369	1.37	12
2500	2	10	48.4	33.5	2932	1.47	19	54.8	39	3415	1.71	32	26.3	14.2	1246	1.25	10
2500	2	15	50.2	30.1	2640	1.32	16	56	35.1	3076	1.54	27	30	12.8	1124	1.12	9
2500	2	20	51.9	26.9	2353	1.18	13	57.2	31.3	2743	1.37	22	33.6	11.4	1002	1	7
2750	2.2	-5	41.4	47	4113	2.06	34	49.4	55	4821	2.41	59	14.1	19.3	1689	1.69	18
2750	2.2	0	43.5	43.2	3785	1.89	29	51	50.6	4433	2.22	51	17.9	17.8	1559	1.56	15
2750	2.2	5	45.5	39.5	3462	1.73	25	52.4	46.3	4053	2.03	44	21.7	16.3	1429	1.43	13
2750	2.2	10	47.5	35.9	3144	1.57	21	53.9	42	3680	1.84	37	25.5	14.9	1300	1.3	11
2750	2.2	15	49.3	32.3	2831	1.42	18	55.2	37.9	3315	1.66	31	29.2	13.4	1173	1.17	9
2750	2.2	20	51.1	28.8	2523	1.26	14	56.5	33.8	2957	1.48	25	32.9	11.9	1046	1.05	8

Tw 45 - 40°C																	
Pa m³/h	Va m/s	Tia °C	Tua °C	Qtot kW	3R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	4R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	6R Pw l/h	Vw m/s	DPw kPa
1500	1.2	-5	31.4	20.1	3480	1.74	28	36.2	22.8	3943	1.97	47	12.9	9.86	1708	1.71	20
1500	1.2	0	32.8	17.8	3079	1.54	23	37.2	20.1	3489	1.75	38	16.1	8.74	1515	1.52	16
1500	1.2	5	34.1	15.5	2687	1.34	18	38	17.6	3045	1.52	30	19.4	7.64	1324	1.33	13
1500	1.2	10	35.4	13.3	2303	1.15	14	38.8	15.1	2611	1.31	23	22.5	6.55	1135	1.14	10
1500	1.2	15	36.6	11.1	1926	0.96	10	39.6	12.6	2188	1.09	17	25.6	5.47	947	0.95	7
1500	1.2	20	37.8	8.98	1556	0.78	7	40.3	10.2	1775	0.89	12	28.7	4.39	762	0.76	5
1750	1.4	-5	30.1	22.6	3919	1.96	35	35.1	25.8	4478	2.24	58	11.5	10.6	1840	1.84	23
1750	1.4	0	31.7	20	3469	1.74	28	36.2	22.9	3962	1.98	47	14.9	9.42	1632	1.63	18
1750	1.4	5	33.1	17.5	3027	1.51	22	37.2	20	3458	1.73	37	18.3	8.23	1426	1.43	15
1750	1.4	10	34.5	15	2594	1.3	17	38.1	17.1	2966	1.48	28	21.6	7.06	1223	1.22	11
1750	1.4	15	35.9	12.5	2169	1.09	12	38.9	14.3	2485	1.24	21	24.8	5.89	1020	1.02	8
1750	1.4	20	37.2	10.1	1752	0.88	8	39.7	11.6	2014	1.01	14	28	4.73	820	0.82	6
2000	1.6	-5	29	25	4337	2.17	41	34.1	28.8	4991	2.5	70	10.4	11.3	1959	1.96	25
2000	1.6	0	30.7	22.2	3839	1.92	33	35.3	25.5	4417	2.21	57	13.9	10	1738	1.74	21
2000	1.6	5	32.3	19.3	3351	1.68	26	36.4	22.3	3856	1.93	45	17.4	8.77	1519	1.52	16
2000	1.6	10	33.8	16.6	2871	1.44	20	37.4	19.1	3307	1.65	34	20.8	7.51	1302	1.3	12
2000	1.6	15	35.2	13.9	2400	1.2	15	38.3	16	2770	1.39	25	24.2	6.27	1086	1.09	9
2000	1.6	20	36.6	11.2	1938	0.97	10	39.2	13	2244	1.12	17	27.5	5.04	873	0.87	6
2250	1.8	-5	28	27.3	4736	2.37	48	33.2	31.7	5485	2.74	83	9.4	11.9	2068	2.07	28
2250	1.8	0	29.8	24.2	4193	2.1	39	34.5	28	4855	2.43	67	13	10.6	1835	1.84	23
2250	1.8	5	31.5	21.1	3660	1.83	31	35.7	24.5	4239	2.12	53	16.6	9.26	1604	1.61	18
2250	1.8	10	33.1	18.1	3136	1.57	23	36.8	21	3636	1.82	40	20.1	7.93	1375	1.38	14
2250	1.8	15	34.6	15.1	2622	1.31	17	37.8	17.6	3045	1.52	30	23.6	6.62	1147	1.15	10
2250	1.8	20	36.1	12.2	2115	1.06	12	38.8	14.2	2466	1.23	20	27	5.32	922	0.92	7
2500	2	-5	27.1	29.6	5120	2.56	55	32.4	34.4	5963	2.98	96	8.6	12.5	2169	2.17	30
2500	2	0	29	26.2	4534	2.27	45	33.7	30.5	5279	2.64	77	12.3	11.1	1925	1.93	25
2500	2	5	30.8	22.8	3958	1.98	35	35	26.6	4609	2.31	61	16	9.71	1683	1.68	19
2500	2	10	32.5	19.6	3391	1.7	27	36.2	22.8	3953	1.98	47	19.6	8.32	1442	1.44	15
2500	2	15	34.1	16.4	2834	1.42	20	37.3	19.1	3310	1.66	34	23.1	6.95	1204	1.2	11
2500	2	20	35.7	13.2	2287	1.14	13	38.4	15.5	2680	1.34	24	26.6	5.58	967	0.97	7
2750	2.2	-5	26.3	31.7	5490	2.75	62	31.6	37.1	6425	3.21	109	7.9	13.1	2263	2.26	33
2750	2.2	0	28.2	28.1	4862	2.43	50	33	32.8	5688	2.85	88	11.7	11.6	2009	2.01	26
2750	2.2	5	30.1	24.5	4244	2.12	40	34.4	28.7	4967	2.49	70	15.4	10.1	1756	1.76	21
2750	2.2	10	31.9	21	3637	1.82	30	35.7	24.6	4260	2.13	53	19.1	8.69	1505	1.51	16
2750	2.2	15	33.6	17.5	3039	1.52	22	36.9	20.6	3567	1.78	39	22.7	7.25	1256	1.26	12
2750	2.2	20	35.3	14.2	2451	1.23	15	38	16.7	2887	1.44	27	26.3	5.82	1009	1.01	8

UT6 - BATTERIA DI RISCALDAMENTO AD ACQUA
UT6- WATER HEATING COILS

Tw 70 - 60°C																	
Pa m³/h	Va m/s	Tia °C	Tua °C	Qtot kW	3R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	4R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	6R Pw l/h	Vw m/s	DPw kPa
2000	1.19	-5	48.9	39.7	3477	1.16	10	56.3	45.1	3950	1.32	17	21.4	19.4	1699	1.7	22
2000	1.19	0	50.5	36.5	3195	1.07	9	57.3	41.4	3628	1.21	15	24.8	17.9	1568	1.57	19
2000	1.19	5	52	33.3	2920	0.97	8	58.3	37.8	3313	1.11	13	28.1	16.4	1438	1.44	16
2000	1.19	10	53.4	30.3	2649	0.88	6	59.2	34.3	3006	1	11	31.4	15	1309	1.31	14
2000	1.19	15	54.7	27.2	2384	0.8	5	60.1	30.9	2706	0.9	9	34.7	13.5	1181	1.18	12
2000	1.19	20	56	24.3	2124	0.71	4	60.9	27.6	2413	0.8	7	37.9	12	1054	1.06	9
2400	1.42	-5	46.7	45.7	3998	1.33	13	54.3	52.4	4587	1.53	22	19	21.2	1853	1.85	25
2400	1.42	0	48.4	42	3675	1.23	11	55.5	48.1	4214	1.41	19	22.5	19.5	1711	1.71	22
2400	1.42	5	50	38.4	3359	1.12	10	56.6	44	3850	1.28	16	26	17.9	1569	1.57	19
2400	1.42	10	51.6	34.8	3048	1.02	8	57.7	39.9	3493	1.17	14	29.5	16.3	1429	1.43	16
2400	1.42	15	53.1	31.3	2744	0.92	7	58.7	35.9	3145	1.05	12	32.9	14.7	1290	1.29	13
2400	1.42	20	54.5	27.9	2444	0.82	6	59.6	32	2804	0.94	9	36.3	13.2	1151	1.15	11
2800	1.66	-5	44.8	51.3	4490	1.5	16	52.6	59.3	5194	1.73	28	17.1	22.7	1991	1.99	29
2800	1.66	0	46.6	47.1	4128	1.38	14	53.9	54.5	4773	1.59	24	20.8	21	1838	1.84	25
2800	1.66	5	48.4	43.1	3774	1.26	12	55.1	49.8	4361	1.45	20	24.4	19.3	1687	1.69	22
2800	1.66	10	50.1	39.1	3425	1.14	10	56.3	45.2	3958	1.32	17	28	17.5	1536	1.54	18
2800	1.66	15	51.7	35.2	3083	1.03	8	57.4	40.7	3563	1.19	14	31.5	15.8	1386	1.39	15
2800	1.66	20	53.3	31.4	2747	0.92	7	58.5	36.3	3177	1.06	12	35	14.1	1238	1.24	13
3200	1.9	-5	43.1	56.6	4957	1.65	19	51	65.9	5774	1.93	33	15.5	24.2	2116	2.12	32
3200	1.9	0	45	52.1	4559	1.52	17	52.4	60.6	5307	1.77	29	19.3	22.3	1954	1.96	28
3200	1.9	5	46.9	47.6	4168	1.39	14	53.8	55.4	4850	1.62	25	23	20.5	1793	1.79	24
3200	1.9	10	48.7	43.2	3783	1.26	12	55.1	50.3	4403	1.47	21	26.7	18.6	1633	1.63	20
3200	1.9	15	50.5	38.9	3406	1.14	10	56.3	45.3	3964	1.32	17	30.4	16.8	1474	1.48	17
3200	1.9	20	52.2	34.6	3034	1.01	8	57.5	40.4	3534	1.18	14	34	15	1316	1.32	14
3600	2.14	-5	41.6	61.7	5403	1.8	22	49.6	72.3	6331	2.11	39	14.2	25.5	2230	2.23	35
3600	2.14	0	43.6	56.7	4970	1.66	19	51.1	66.5	5821	1.94	34	18.1	23.5	2060	2.06	31
3600	2.14	5	45.6	51.9	4544	1.52	17	52.6	60.7	5320	1.77	29	21.9	21.6	1890	1.89	26
3600	2.14	10	47.6	47.1	4126	1.38	14	54	55.2	4830	1.61	25	25.7	19.7	1722	1.72	22
3600	2.14	15	49.4	42.4	3714	1.24	12	55.3	49.7	4349	1.45	20	29.4	17.8	1554	1.56	19
3600	2.14	20	51.2	37.8	3308	1.1	9	56.5	44.3	3877	1.29	17	33.1	15.9	1388	1.39	15
4000	2.37	-5	40.2	66.6	5830	1.94	26	48.3	78.4	6868	2.29	45	13.1	26.7	2336	2.34	38
4000	2.37	0	42.4	61.3	5364	1.79	22	49.9	72.1	6316	2.11	39	17.1	24.6	2158	2.16	33
4000	2.37	5	44.5	56	4905	1.64	19	51.5	65.9	5774	1.93	33	20.9	22.6	1981	1.98	29
4000	2.37	10	46.5	50.9	4454	1.49	16	52.9	59.9	5242	1.75	28	24.8	20.6	1804	1.81	24
4000	2.37	15	48.4	45.8	4009	1.34	13	54.4	53.9	4720	1.57	24	28.6	18.6	1629	1.63	20
4000	2.37	20	50.3	40.8	3572	1.19	11	55.7	48.1	4209	1.4	19	32.3	16.6	1454	1.46	17

Tw 45 - 40°C																	
Pa m³/h	Va m/s	Tia °C	Tua °C	Qtot kW	3R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	4R Pw l/h	Vw m/s	DPw kPa	Tua °C	Qtot kW	6R Pw l/h	Vw m/s	DPw kPa
2000	1.19	-5	31.3	26.7	4633	1.55	19	36.2	30.3	5253	1.75	32	12.8	13.1	2275	2.28	41
2000	1.19	0	32.7	23.7	4098	1.37	15	37.1	26.8	4646	1.55	26	16.1	11.7	2020	2.02	33
2000	1.19	5	34.1	20.6	3575	1.19	12	38	23.4	4054	1.35	20	19.4	10.2	1768	1.77	26
2000	1.19	10	35.4	17.7	3062	1.02	9	38.8	20.1	3476	1.16	15	22.6	8.76	1518	1.52	20
2000	1.19	15	36.6	14.8	2559	0.85	7	39.5	16.8	2912	0.97	11	25.7	7.33	1269	1.27	15
2000	1.19	20	37.7	11.9	2066	0.69	5	40.2	13.6	2359	0.79	8	28.8	5.91	1024	1.02	10
2400	1.42	-5	29.8	30.8	5329	1.78	24	34.9	35.2	6104	2.04	41	11.2	14.3	2483	2.48	47
2400	1.42	0	31.4	27.2	4716	1.57	20	36	31.2	5400	1.8	33	14.7	12.7	2205	2.21	38
2400	1.42	5	32.9	23.7	4114	1.37	15	36.9	27.2	4712	1.57	26	18.1	11.1	1930	1.93	30
2400	1.42	10	34.3	20.3	3523	1.18	12	37.9	23.3	4040	1.35	20	21.4	9.56	1657	1.66	23
2400	1.42	15	35.7	17	2944	0.98	9	38.8	19.5	3383	1.13	15	24.7	8	1386	1.39	17
2400	1.42	20	37	13.7	2375	0.79	6	39.6	15.8	2740	0.91	10	28	6.45	1117	1.12	12
2800	1.66	-5	28.5	34.6	5989	2	30	33.7	39.9	6914	2.31	51	9.9	15.4	2668	2.67	54
2800	1.66	0	30.2	30.6	5300	1.77	24	34.9	35.3	6118	2.04	41	13.5	13.7	2370	2.37	44
2800	1.66	5	31.9	26.7	4624	1.54	19	36	30.8	5339	1.78	33	17.1	12	2074	2.08	35
2800	1.66	10	33.4	22.9	3960	1.32	14	37.1	26.4	4577	1.53	25	20.5	10.3	1781	1.78	26
2800	1.66	15	34.9	19.1	3307	1.1	11	38.1	22.1	3832	1.28	18	24	8.6	1490	1.49	19
2800	1.66	20	36.3	15.4	2667	0.89	7	39	17.9	3102	1.03	13	27.4	6.93	1201	1.2	13
3200	1.9	-5	27.4	38.2	6614	2.21	36	32.7	44.4	7691	2.57	62	8.9	16.4	2836	2.84	60
3200	1.9	0	29.2	33.8	5854	1.95	29	34	39.3	6806	2.27	50	12.6	14.5	2519	2.52	49
3200	1.9	5	31	29.5	5108	1.7	23	35.2	34.3	5941	1.98	39	16.2	12.7	2205	2.21	38
3200	1.9	10	32.6	25.2	4374	1.46	17	36.4	29.4	5093	1.7	30	19.8	10.9	1893	1.89	29
3200	1.9	15	34.2	21.1	3653	1.22	13	37.5	24.6	4263	1.42	22	23.3	9.14	1584	1.58	22
3200	1.9	20	35.8	17	2944	0.98	9	38.5	19.9	3448	1.15	15	26.8	7.37	1276	1.28	15
3600	2.14	-5	26.4	41.6	7211	2.41	41	31.8	48.7	8436	2.81	73	8	17.3	2989	2.99	65
3600	2.14	0	28.3	36.8	6383	2.13	33	33.1	43.1	7467	2.49	59	11.8	15.3	2656	2.66	53
3600	2.14	5	30.2	32.1	5570	1.86	26	34.5	37.6	6518	2.17	46	15.5	13.4	2325	2.33	42
3600	2.14	10	31.9	27.5	4770	1.59	20	35.7	32.3	5588	1.86	35	19.2	11.5	1996	2	32
3600	2.14	15	33.6	23	3983	1.33	15	36.9	27	4676	1.56	26	22.8	9.64	1670	1.67	24
3600	2.14	20	35.3	18.5	3208	1.07	10	38	21.8	3782	1.26	18	26.4	7.77	1345	1.35	16
4000	2.37	-5	25.5	44.9	7784	2.6	47	30.9	52.8	9155	3.05	84	7.3	18.1	3132	3.13	71
4000	2.37	0	27.5	39.8	6891	2.3	38	32.4	46.8	8105	2.7	68	11.1	16.1	2783	2.78	58
4000	2.37	5	29.5	34.7	6013	2.01	30	33.8	40.8	7075	2.36	53	14.9	14.1	2436	2.44	46
4000	2.37	10	31.3	29.7	5149	1.72	23	35.1	35	6065	2.02	41	18.7	12.1	2092	2.09	35
4000	2.37	15	33.1	24.8	4299	1.43	17	36.4	29.3	5075	1.69	30	22.4	10.1	1750	1.75	26
4000	2.37	20	34.8	20	3462	1.15	11	37.6	23.7	4103	1.37	21	26	8.14	1410	1.41	18

UT7 - BATTERIA DI RISCALDAMENTO AD ACQUA
UT7- WATER HEATING COILS

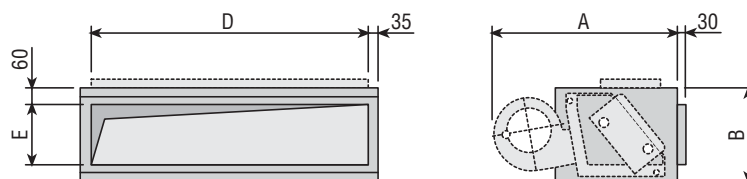
Tw 70 - 60°C																	
Pa m³/h	Va m/s	Tia °C	Tua °C	Otot kW	3R Pw l/h	Vw m/s	DPw kPa	Tua °C	Otot kW	4R Pw l/h	Vw m/s	DPw kPa	Tua °C	Otot kW	6R Pw l/h	Vw m/s	DPw kPa
3000	1.14	-5	50	60.8	5321	1.77	31	56.9	68.3	5981	1.5	23	21.1	28.8	2522	1.26	9
3000	1.14	0	51.6	55.9	4893	1.63	27	57.9	62.7	5494	1.37	20	24.5	26.6	2326	1.16	8
3000	1.14	5	53	51.1	4475	1.49	23	58.8	57.3	5018	1.26	17	27.9	24.3	2131	1.07	7
3000	1.14	10	54.4	46.4	4064	1.36	20	59.7	52	4554	1.14	14	31.2	22.1	1939	0.97	6
3000	1.14	15	55.7	41.8	3661	1.22	16	60.6	46.8	4101	1.03	12	34.4	20	1747	0.87	5
3000	1.14	20	56.9	37.3	3267	1.09	13	61.4	41.8	3658	0.92	10	37.6	17.8	1558	0.78	4
3600	1.37	-5	47.8	69.9	6126	2.04	40	54.9	79.4	6951	1.74	30	18.7	31.4	2751	1.38	11
3600	1.37	0	49.5	64.3	5636	1.88	35	56.1	72.9	6387	1.6	26	22.3	29	2538	1.27	9
3600	1.37	5	51.1	58.9	5155	1.72	30	57.2	66.6	5836	1.46	22	25.8	26.6	2326	1.16	8
3600	1.37	10	52.6	53.5	4683	1.56	25	58.2	60.5	5296	1.33	19	29.3	24.2	2116	1.06	7
3600	1.37	15	54.1	48.2	4219	1.41	21	59.2	54.5	4770	1.19	16	32.7	21.8	1907	0.95	6
3600	1.37	20	55.5	43	3765	1.26	17	60.1	48.6	4255	1.06	13	36	19.4	1700	0.85	5
4200	1.6	-5	45.9	78.6	6886	2.3	49	53.2	89.9	7876	1.97	38	16.8	33.7	2955	1.48	12
4200	1.6	0	47.7	72.4	6336	2.11	43	54.5	82.6	7238	1.81	33	20.5	31.1	2726	1.36	10
4200	1.6	5	49.4	66.2	5797	1.93	36	55.7	75.5	6615	1.65	28	24.2	28.5	2499	1.25	9
4200	1.6	10	51.1	60.1	5267	1.76	31	56.9	68.6	6005	1.5	23	27.7	26	2274	1.14	8
4200	1.6	15	52.7	54.2	4747	1.58	26	57.9	61.8	5408	1.35	20	31.3	23.4	2050	1.03	6
4200	1.6	20	54.2	48.4	4235	1.41	21	59	55.1	4824	1.21	16	34.8	20.9	1828	0.91	5
4800	1.83	-5	44.2	86.9	7608	2.54	59	51.6	100	8760	2.19	45	15.3	35.9	3140	1.57	13
4800	1.83	0	46.1	80	7003	2.34	51	53	92	8054	2.01	39	19.1	33.1	2897	1.45	12
4800	1.83	5	48	73.2	6408	2.14	43	54.4	84.1	7362	1.84	34	22.8	30.3	2656	1.33	10
4800	1.83	10	49.8	66.5	5823	1.94	37	55.6	76.3	6684	1.67	28	26.5	27.6	2417	1.21	8
4800	1.83	15	51.5	59.9	5248	1.75	31	56.8	68.7	6020	1.51	24	30.1	24.9	2179	1.09	7
4800	1.83	20	53.1	53.5	4683	1.56	25	58	61.3	5370	1.34	19	33.7	22.2	1943	0.97	6
5400	2.06	-5	42.7	94.8	8299	2.77	68	50.2	110	9611	2.4	53	14	37.8	3309	1.66	15
5400	2.06	0	44.7	87.2	7640	2.55	59	51.7	101	8837	2.21	46	17.9	34.9	3054	1.53	13
5400	2.06	5	46.7	79.8	6992	2.33	51	53.2	92.3	8079	2.02	39	21.7	32	2800	1.4	11
5400	2.06	10	48.6	72.6	6355	2.12	43	54.5	83.8	7337	1.84	33	25.5	29.1	2548	1.27	9
5400	2.06	15	50.4	65.4	5728	1.91	36	55.8	75.5	6609	1.65	28	29.2	26.2	2297	1.15	8
5400	2.06	20	52.1	58.4	5111	1.7	29	57	67.3	5895	1.47	23	32.9	23.4	2048	1.02	6
6000	2.29	-5	41.3	102	8961	2.99	78	48.9	119	###	2.61	62	12.9	39.6	3466	1.73	16
6000	2.29	0	43.5	94.2	8251	2.75	68	50.5	110	9593	2.4	53	16.9	36.5	3199	1.6	14
6000	2.29	5	45.5	86.2	7553	2.52	58	52.1	100	8772	2.19	46	20.7	33.5	2933	1.47	12
6000	2.29	10	47.5	78.4	6865	2.29	49	53.5	91	7966	1.99	38	24.6	30.5	2669	1.34	10
6000	2.29	15	49.4	70.7	6189	2.06	41	54.9	81.9	7176	1.8	32	28.4	27.5	2407	1.2	8
6000	2.29	20	51.2	63.1	5523	1.84	34	56.2	73.1	6401	1.6	26	32.1	24.5	2146	1.07	7

Tw 45 - 40°C																	
Pa m³/h	Va m/s	Tia °C	Tua °C	Otot kW	3R Pw l/h	Vw m/s	DPw kPa	Tua °C	Otot kW	4R Pw l/h	Vw m/s	DPw kPa	Tua °C	Otot kW	6R Pw l/h	Vw m/s	DPw kPa
3000	1.14	-5	32.1	40.9	7089	2.36	58	36.6	45.9	7953	1.99	43	12.7	19.5	3378	1.69	17
3000	1.14	0	33.4	36.2	6278	2.09	47	37.5	40.6	7036	1.76	35	16	17.3	2996	1.5	14
3000	1.14	5	34.7	31.7	5483	1.83	37	38.3	35.4	6141	1.54	27	19.2	15.1	2618	1.31	11
3000	1.14	10	36	27.2	4705	1.57	28	39.1	30.4	5268	1.32	21	22.4	13	2243	1.12	8
3000	1.14	15	37.2	22.8	3942	1.31	21	39.8	25.5	4415	1.1	15	25.5	10.8	1873	0.94	6
3000	1.14	20	38.3	18.4	3194	1.07	14	40.5	20.7	3582	0.9	11	28.6	8.68	1505	0.75	4
3600	1.37	-5	30.6	47.1	8167	2.72	74	35.3	53.4	9248	2.31	56	11.1	21.3	3685	1.84	20
3600	1.37	0	32.1	41.8	7235	2.41	60	36.3	47.2	8184	2.05	45	14.5	18.9	3269	1.64	16
3600	1.37	5	33.6	36.5	6320	2.11	47	37.3	41.2	7144	1.79	35	17.9	16.5	2857	1.43	13
3600	1.37	10	35	31.3	5423	1.81	36	38.2	35.4	6128	1.53	27	21.3	14.1	2448	1.23	10
3600	1.37	15	36.3	26.2	4543	1.52	27	39	29.6	5135	1.28	20	24.6	11.8	2043	1.02	7
3600	1.37	20	37.5	21.2	3679	1.23	18	39.8	24	4164	1.04	14	27.8	9.47	1642	0.82	5
4200	1.6	-5	29.3	53	9184	3.06	91	34.2	60.5	###	2.62	69	9.8	22.9	3959	1.98	22
4200	1.6	0	31	47	8138	2.71	74	35.3	53.6	9278	2.32	56	13.4	20.3	3513	1.76	18
4200	1.6	5	32.5	41	7110	2.37	58	36.4	46.8	8102	2.03	44	16.9	17.7	3070	1.54	14
4200	1.6	10	34.1	35.2	6101	2.04	44	37.4	40.1	6950	1.74	34	20.4	15.2	2631	1.32	11
4200	1.6	15	35.5	29.5	5110	1.7	33	38.4	33.6	5822	1.46	25	23.8	12.7	2196	1.1	8
4200	1.6	20	36.9	23.9	4137	1.38	23	39.3	27.2	4717	1.18	17	27.2	10.2	1764	0.88	5
4800	1.83	-5	28.2	58.6	###	3.39	108	33.1	67.3	###	2.92	84	8.7	24.3	4207	2.11	25
4800	1.83	0	29.9	51.9	8996	3	88	34.4	59.6	###	2.58	68	12.4	21.6	3734	1.87	20
4800	1.83	5	31.6	45.4	7861	2.62	69	35.6	52.1	9019	2.26	53	16.1	18.8	3263	1.63	16
4800	1.83	10	33.3	38.9	6746	2.25	53	36.7	44.7	7736	1.94	41	19.7	16.1	2797	1.4	12
4800	1.83	15	34.8	32.6	5650	1.88	39	37.8	37.4	6480	1.62	30	23.2	13.5	2333	1.17	9
4800	1.83	20	36.3	26.4	4572	1.53	27	38.8	30.3	5249	1.31	21	26.7	10.8	1874	0.94	6
5400	2.06	-5	27.2	63.9	###	3.69	126	32.2	73.9	###	3.2	98	7.9	25.6	4435	2.22	27
5400	2.06	0	29	56.7	9817	3.27	102	33.5	65.4	###	2.84	80	11.6	22.7	3936	1.97	22
5400	2.06	5	30.9	49.5	8580	2.86	81	34.8	57.1	9901	2.48	63	15.4	19.9	3440	1.72	18
5400	2.06	10	32.6	42.5	7363	2.46	62	36	49	8493	2.12	48	19	17	2948	1.48	13
5400	2.06	15	34.2	35.6	6166	2.06	45	37.2	41.1	7113	1.78	35	22.7	14.2	2460	1.23	10
5400	2.06	20	35.8	28.8	4988	1.66	31	38.3	33.2	5760	1.44	24	26.3	11.4	1975	0.99	7
6000	2.29	-5	26.3	69	###	3.99	145	31.3	80.2	###	3.48	114	7.1	26.8	4646	2.32	30
6000	2.29	0	28.2	61.2	###	3.54	117	32.8	71.1	###	3.08	92	11	23.8	4123	2.06	24
6000	2.29	5	30.1	53.5	9269	3.09	92	34.2	62.1	###	2.69	72	14.8	20.8	3604	1.8	19
6000	2.29	10	32	45.9	7955	2.65	71	35.5	53.2	9223	2.31	55	18.5	17.8	3089	1.55	15
6000	2.29	15	33.7	38.5	6661	2.22	52	36.7	44.6	7724	1.93	41	22.2	14.9	2577	1.29	11
6000	2.29	20	35.4	31.1	5388	1.8	36	37.9	36.1	6252	1.56	28	25.9	11.9	2068	1.03	7

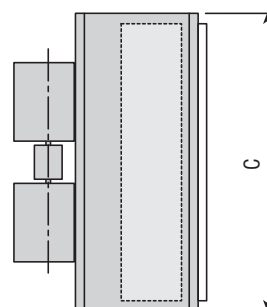
DIMENSIONI • DIMENSIONS

UT xxB

Unità base • *Basic Unit*

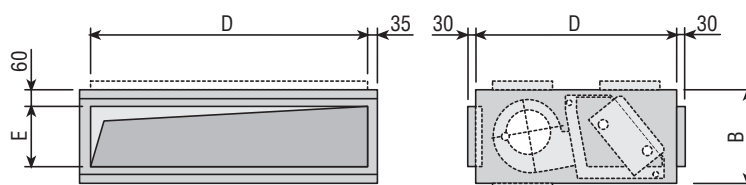


Mod.	A	B	C	D	E
UT1	650	330	750	680	210
UT2	650	330	850	780	210
UT3	650	330	1.050	980	210
UT4	845	450	850	780	330
UT5	845	450	1.050	980	330
UT6	845	450	1.350	1.280	330
UT7	845	450	2.000	1.930	330

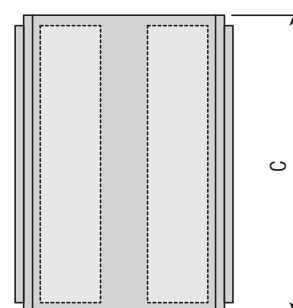


UT xxC

Unità con plenum di ripresa • *Unit with intake plenum*

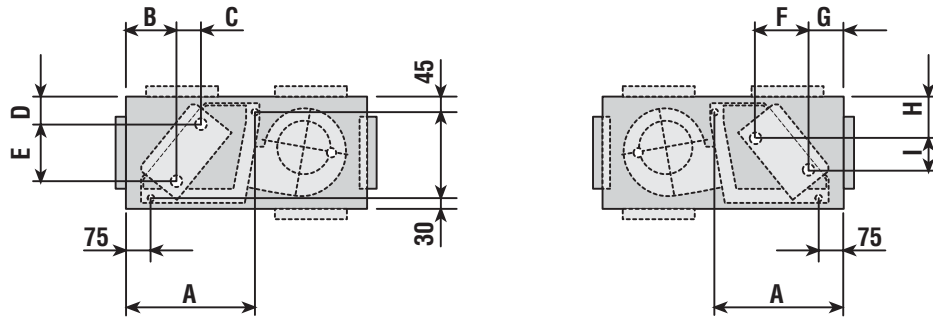


Mod.	A	B	C	D	E
UT1	710	330	750	680	210
UT2	710	330	850	780	210
UT3	710	330	1050	980	210
UT4	950	450	850	780	330
UT5	950	450	1050	980	330
UT6	950	450	1350	1280	330
UT7	950	450	2000	1930	330



Collegamenti idraulici

Hydraulic connections

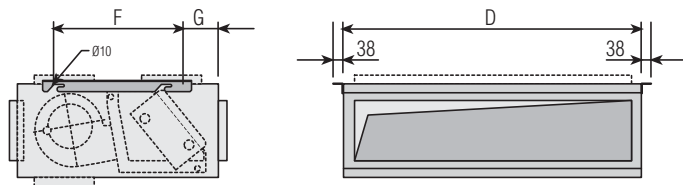


Mod.	A	B	C	D	E	F	G	H	I	Collettori Headers	Scarico Drain
UT1	383	160	57	87	157	144	116	123	83	1"	1/2"
UT2	383	160	57	87	157	144	116	123	83	1"	1/2"
UT3	383	160	57	87	157	144	116	123	83	1"	1/2"
UT4	476	161	148	92	266	236	117	129	193	1"	1/2"
UT5	476	161	148	92	266	236	117	129	193	1"	1/2"
UT6	476	161	148	92	266	236	117	129	193	1"	1/2"
UT7	476	161	148	92	266	236	117	129	193	1"	1/2"

Forature di montaggio

Drillings for supports

Mod.	A	B	C
UT1	790	457	123
UT2	890	457	123
UT3	1090	457	123
UT4	890	642	172
UT5	1090	642	172
UT6	1390	642	172
UT7	2040	642	172



NOTA

con l'imballo è fornita una dima di foratura

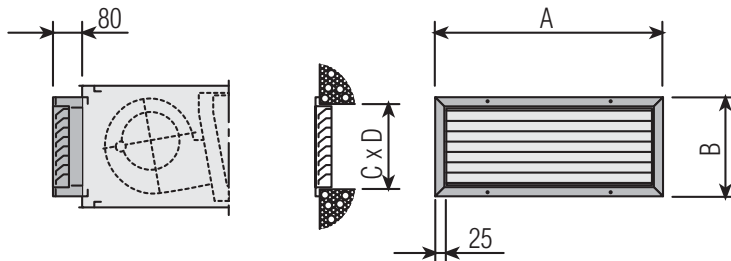
NOTE

with packing a drilling template is supplied

UxGA

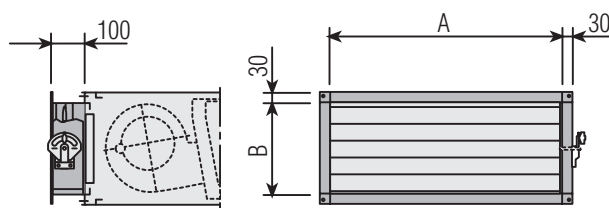
Griglia di aspirazione • Intake louvre

Mod.	A	B	C	D
UT1	745	270	715	240
UT2	845	270	815	240
UT3	1.045	270	1.015	240
UT4	845	390	815	360
UT5	1.045	390	1.015	360
UT6	1.345	390	1.315	360
UT7	1.995	390	1.965	360



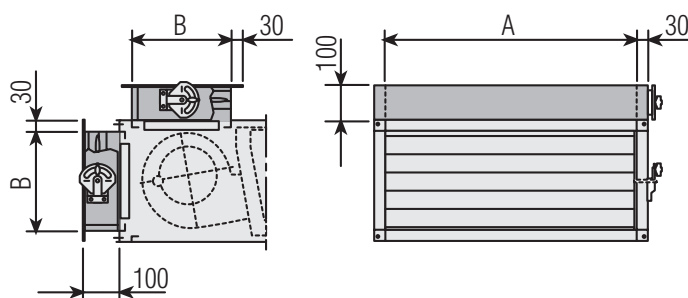
UxSR
Serrande di aspirazione • *Intake damper*

Mod.	A	B
UT1	690	270
UT2	790	270
UT3	990	270
UT4	790	390
UT5	990	390
UT6	1.290	390
UT7	1.940	390

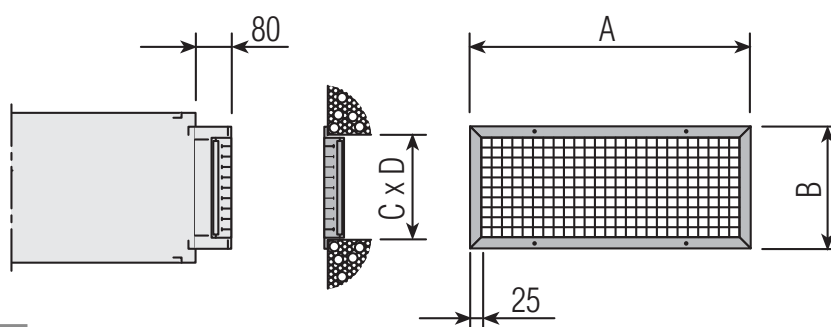


UxSM
Camera di miscela • *mixing box*

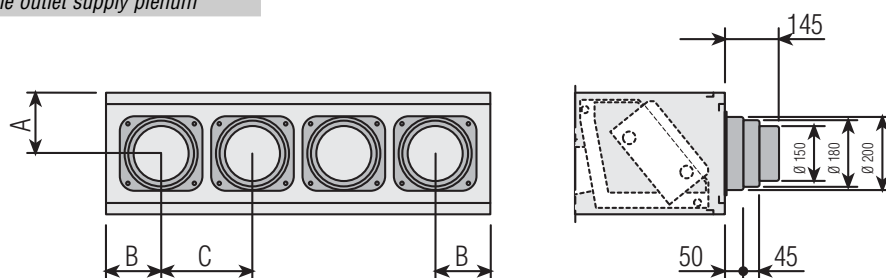
Mod.	A	B
UT1	690	270
UT2	790	270
UT3	990	270
UT4	790	390
UT5	990	390
UT6	1.290	390
UT7	1.940	390



UxGM
Bocchetta di mandata • *Supply louver*



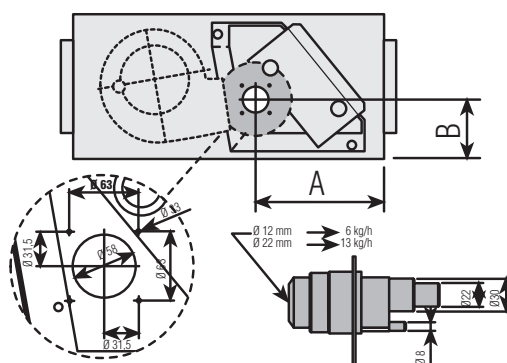
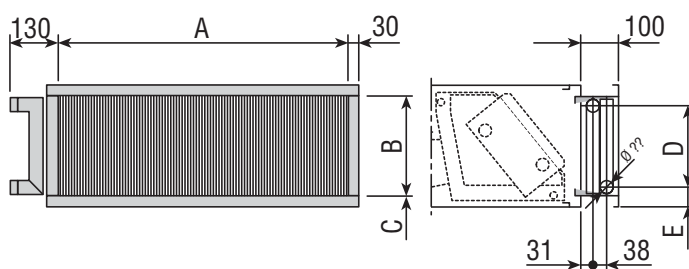
Mod.	A	B	C	D
UT1	745	270	715	240
UT2	845	270	815	240
UT3	1045	270	1015	240
UT4	845	390	815	360
UT5	1045	390	1015	360
UT6	1345	390	1315	360
UT7	1995	390	1965	360

UxPMPannello con mandate multiple • *Multiple outlet supply plenum*

Mod.	A	B	C	n
UT1	165	200	-	2
UT2	165	175	250	3
UT3	165	150	250	4
UT4	225	175	250	3
UT5	225	150	250	4
UT6	225	175	250	5
UT7	225	175	330	6

UUVTubo distributore vapore • *Steam manifold*

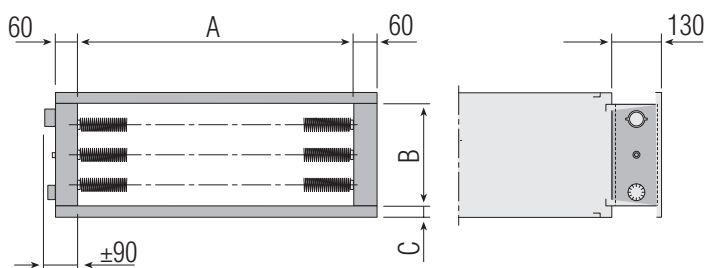
Mod.	A	B
UT1	295	135
UT2	295	135
UT3	295	135
UT4	370	210
UT5	370	210
UT6	370	210
UT7	370	210

**UxBP**Batteria di postriscaldamento ad acqua • *re-heating water coil*

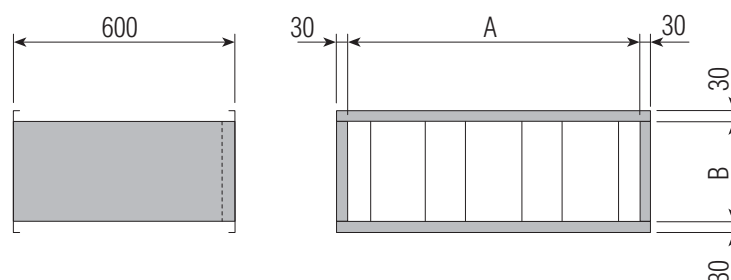
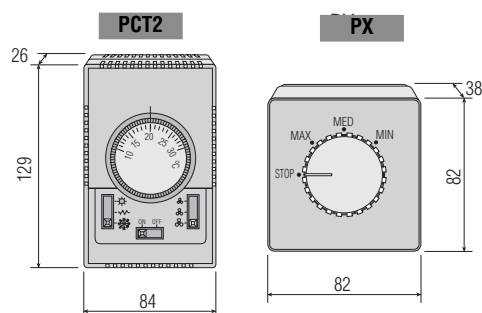
Mod.	A	B	C	D	E	F
UT1	690	275	27.5	233	48.5	1"
UT2	790	275	27.5	233	48.5	1"
UT3	990	275	27.5	233	48.5	1"
UT4	790	400	25	358	46	1"
UT5	990	400	25	358	46	1"
UT6	1290	400	25	358	46	1"
UT7	1940	400	25	358	46	1"

UxBRBatteria di postriscaldamento elettrica • *re-heating electric battery*

Mod.	A	B
UT1	630	270
UT2	730	270
UT3	930	270
UT4	730	390
UT5	930	390
UT6	1230	390
UT7	1880	390

**UxSL**Silenziatore • *Sound attenuator*

Mod.	A	B
UT1	690	270
UT2	790	270
UT3	990	270
UT4	790	390
UT5	990	390
UT6	1.290	390
UT7	1.940	390

**Pannelli comandi PX e PCT2**Control panels *PX and PCT2*

SIGLA.	Descrizione	Description	UT1	UT2	UT3	UT4	UT5	UT6	UT7
UTx3B	unità base 3 ranghi	basic unit 3 rows	35.4	39.9	48	53	67.2	82.7	113.5
UTx4B	unità base 4 ranghi	basic unit 4 rows	36.4	41.9	49.5	55	68.2	85.7	118
UTx6B	unità base 6 ranghi	basic unit 6 rows	37.9	42.9	51.5	57.5	71.2	90.2	125
UTxEB	unità base esp. dir.	basic unit direct exp.	35.5	40	48	53	67.5	83	113.5
UTxB	unità base estrattore	basic unit exhaust fan	28.5	32	39	42	53	67	92
UTx3C	unità con plenum 3 ranghi	unit with plenum 3 rows	41.3	46.4	55.4	63.4	78.8	96.3	131.5
UTx4C	unità con plenum 4 ranghi	unit with plenum 4 rows	42.2	48.3	56.7	65.2	79.7	99.2	136
UTx6C	unità con plenum 6 ranghi	unit with plenum 6 rows	43.9	49.4	58.9	67.9	83.1	103.8	143
UTxEC	unità con plenum esp. dir.	unit with plenum direct exp.	41.5	46.5	55.5	63.5	79	96.5	131.5
UTxXC	unità con plenum - estrattore	unit with plenum-exhaust fan	34	38.5	46.5	52.5	64.5	80.5	110
UxGA	griglia di aspirazione	intake louvre	3.8	4.1	5.3	5.1	6.3	8.1	12
UxSR	serranda di aspirazione	intake damper	4.6	4.9	5.6	5.8	6.7	9.4	13.3
UxSM	camera di miscela	mixing box	11.5	13	16	15	18.5	24	35.5
UUV	tubo distributore vapore	steam manifold	0.5	0.5	0.5	0.5	0.5	0.5	0.5
UxBP	batteria di postriscaldamento ad acqua	re-heating water coil	6.8	7.5	8.3	8.8	9.8	11.5	16
UxBR	batteria di postriscaldamento elettrica	re-heating electric battery	11	12.5	15.5	20	25	32	47
UxPM	pannello con mandate multiple circolari	multiple outlet supply plenum	2.1	2.6	3.2	3.3	4.9	5.3	7.4
UxGM	bocchetta di mandata	supply louvre	4.2	4.5	5.8	5.6	6.9	8.9	13.2
UxSL	sezione silenziatore	noise attenuator section	32.5	34	41.5	39	48	58	86

Imballo

Le unità di condizionamento serie **UT** vengono abitualmente fornite su pallet e imballate in scatola di cartone.

Trasporto

Il trasporto deve avvenire con le seguenti precauzioni:

- adeguato bloccaggio sul pianale del camion;
- protezione del carico con telone;

Verifiche al ricevimento

Al ricevimento della unità è necessario eseguire un primo controllo visivo per verificare l'assenza di danni dovuti al trasporto. In caso si evidenziassero dei danni è necessario evidenziarli sul documento di accompagnamento.

Stoccaggio in cantiere

Le unità UT devono essere immagazzinate al coperto.

Installazione

Sollevamento e posizionamento

Il sollevamento deve essere preferibilmente fatto con l'ausilio di mezzi meccanici a causa del peso delle unità.

La messa in opera in controsoffitto deve avvenire mediante le apposite staffe di ancoraggio ad "L", evitando l'impiego di barre trasversali sotto l'unità: queste precluderebbero la possibilità di manutenzione ordinaria (pulizia o sostituzione delle celle filtranti) e straordinaria (sfilaggio dei ventilatori).

Smontare le staffe dall'unità svitando le viti B1 e B2 (versione UTxxB) o B1 e B3 (versione UTxxC)

Avvitare le staffe al soffitto utilizzando i fori A

Avvitare parzialmente una vite B per ogni staffa sull'unità

Sollevare l'unità e agganciarla alle staffe facendola scorrere longitudinalmente

Avvitare la seconda vite B per ogni staffa, stringendo a fondo anche la prima.

Con l'imballo viene fornita una dima per il posizionamento delle staffe di ancoraggio.

Le dimensioni relative sono comunque indicate nello schema a pagina 34.

Packing

The large capacity fan coil units UT series are usually supplied on pallet with cartoon box.

Transport

The transport must be done according to the following indications:

- Packages must be securely fixed at truck.s floor;
- Packages must be covered ;

Checks at material receipt

When units are received on site, it's necessary to do some preliminary checks to verify that no damages have been occurred during transport.. In case those damages should be marked on transport document.

Stocking at site

The UT units must be stocked inside the building.

Installation

Lifting and positioning

The lifting should be done with mechanical devices because of the weight of the units.

The units, installed at ceiling, must be secured with the proper "L" supports; use of transversal beams under the unit must be avoided, since it would make impossible the ordinary maintenance (filters) and the extraordinary maintenance (fan slide-out).

Remove the L supports from the unit unscrewing the screws B1 and B2 (UTxxB version) or B1 and B3 (UTxxC version)

Screw the bolts to the ceiling through the holes A

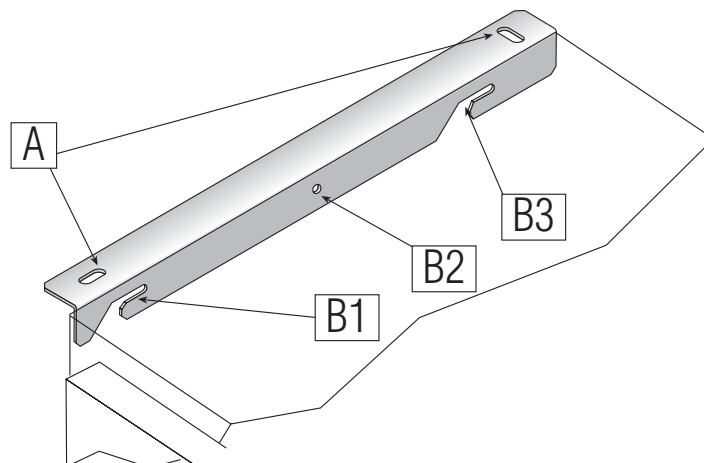
Partially screw one B bolt for each eyebolt

Lift the unit and fasten it to the eyebolts sliding it longitudinally

Screw the second B bolt for each eyebolt, screwing completely the first too.

In the packing it is also supplied a mask for the positioning of the L supports.

The relevant dimensions are anyway indicated at page 34.



Spazi tecnici

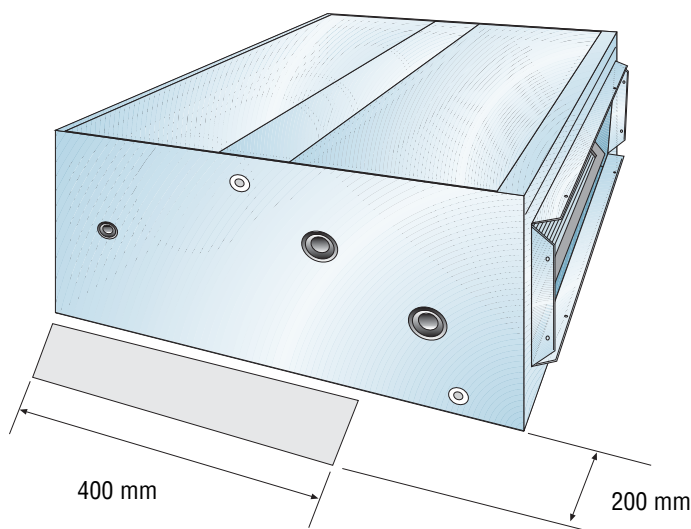
L'eventuale controsoffitto deve prevedere la possibilità di accesso alla pannellatura inferiore dell'unità UT lato ventilatore per l'ispezione dei filtri e dei ventilatori.

Dal lato scarico condensa prevedere uno spazio di almeno 200 mm per il collegamento della stessa e di 400 mm minimo dal lato collettori per il montaggio della valvola.

Areas for maintenance

The counterceiling, if existing, must be suitable for the removal of the bottom panel (fan side) of the UT unit for the inspection of filter and fans.

At drain side of unit leave at minimum 200 mm for the connection of the drain pipe and minimum 400 mm for valve assembly.



Allacciamenti aeraulici

Le bocche di mandata e di ripresa, quando canalizzate, devono essere collegate ai canali con l'interposizione di un giunto antivibrante.

Il giunto antivibrante si collega alla unità avvitandolo lateralmente con viti autoforanti alla flangia sporgente dal pannello.

Deve essere garantita l'equipotenzialità elettrica fra canale e centrale con un cavo di terra che faccia da ponte sul giunto antivibrante.

Si raccomanda che il canale di mandata inizi con un tratto diritto lungo almeno 2.5 volte il lato minore del canale prima di curve, diramazioni ed ostruzioni tipo serrande, per evitare cali nelle prestazioni della macchina.

I tratti divergenti non devono presentare inclinazioni superiori ai 7°.

Connection of ducts

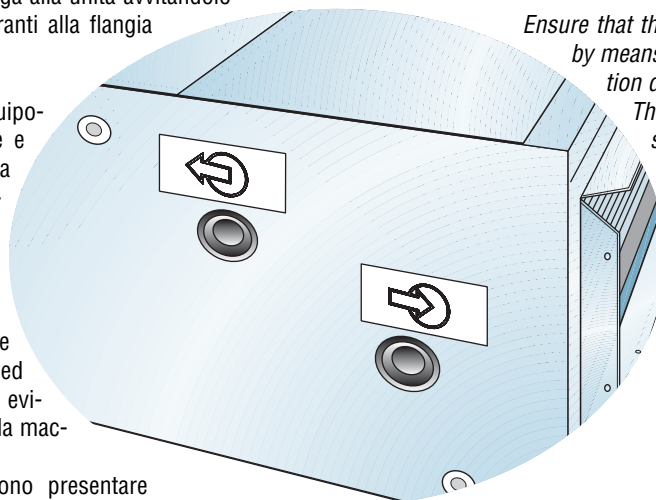
Fit a antivibration canvas between the unit and the duct.

Connect the canvas to the unit by screwing it with self-tapping screws to the flange of the panel.

Ensure that the duct and the unit are equipotential by means of an earth cable bridging the vibration damping joint.

The initial section of the air delivery duct should be 2.5 times longer than the shorter side of the duct; curves, branching or obstructions will affect fan performance.

Branching sections should not be inclined at an angle greater than 7°.



Le unità UTxxC vengono fornite con il pannello di ripresa portafil-
tro montato con l'orientamento mostrato nella figura (A).
Smontando il pannello è possibile posizionarlo con l'orientamen-
to (B) o (C).

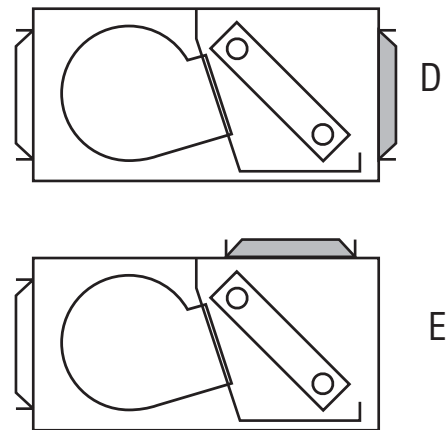
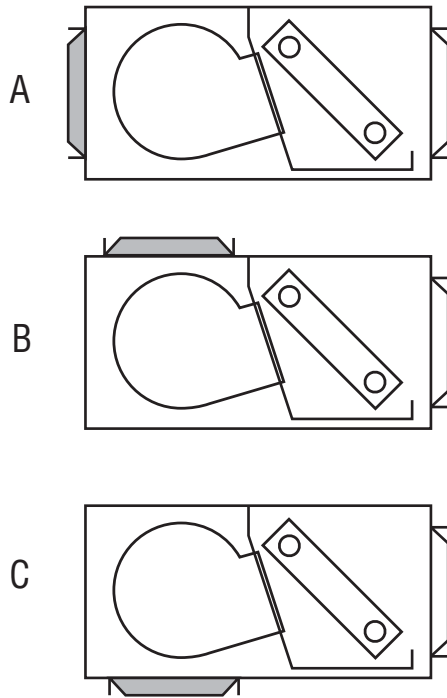
Le unità UT vengono fornite con il pannello di mandata montato
con l'orientamento mostrato nella figura (D). Smontando il pan-
nello è possibile posizionarlo con l'orientamento (E).

Le posizioni delle bocche di mandata e di ripresa sono indipen-
denti.

*The UTxxC units are supplied with the intake panel in the orienta-
tion shown in the figure (A). Removing the panel it is possible to
change the orientation according to figure (B) or (C).*

*The UT units are supplied with the supply panel in the orientation
shown in the figure (D). Removing the panel it is possible to
change the orientation according to figure (E).*

The positions of the intake and supply openings are independent.



Allacciamenti idraulici

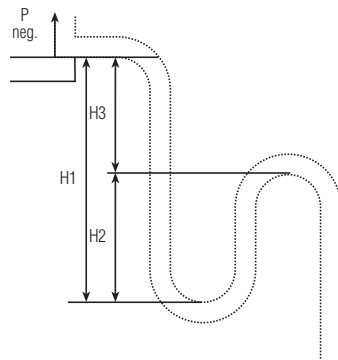
Scarico condensa

La vasca di raccolta condensa è provvista di scarico filettato 1/2" G UNI 338.

Un sistema di scarico deve prevedere un adeguato sifone per:

- permettere il libero scarico della condensa;
- prevenire l'indesiderata entrata d'aria nei sistemi in depressione;
- prevenire l'indesiderata uscita d'aria nei sistemi in pressione;
- prevenire l'infiltrarsi di odori o insetti.

Di seguito si danno le regole da seguire per il dimensionamento e l'esecuzione dei sifoni nel caso di vasca in depressione e in pressione.



Pressione negativa:

$$H1 = 2P$$
$$H2 = H1 / 2$$

Pressione positiva:

$$H1 = 2P$$
$$H2 = H1 / 2$$

dove P è la pressione espressa in mm di colonna d'acqua (1 mm c.a. = 9.81 Pa)

Il sifone deve essere dotato di tappo per la pulizia nella parte bassa o deve comunque permettere un veloce smontaggio per la pulizia.

Allacciamento batterie ad acqua

- Le batterie di scambio termico presentano i collettori con attacco filettato 1" G UNI 338 realizzato su manicotti forniti a corredo. I manicotti smontati permettono, se necessario, di invertire il lato attacchi (le unità vengono fornite con attacchi sul lato destro della unità). Per l'inversione del lato attacchi seguire le istruzioni.
- Il percorso dei tubi deve essere studiato in modo da non interferire con il pannello d'ispezione sul fondo dell'unità.
- Entrata e uscita acqua devono essere tali da consentire lo scambio termico in controcorrente: seguire quindi le indicazioni delle targhette ENTRATA ACQUA e USCITA ACQUA.
- Prevedere una valvola di sfiato in alto ed una di scarico in basso.
- Staffare adeguatamente i tubi all'esterno della unità per evitare di scaricarne il peso sulla batteria.

Hydraulic connections

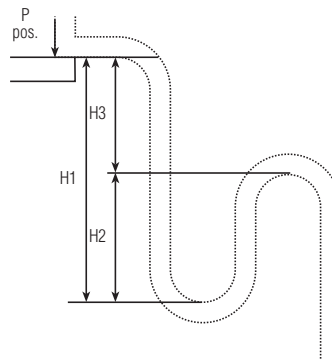
Drain

The drain pan is provided with a threaded drain pipe 1/2" G UNI 338.

The drainage system should feature an adequately sized siphon to:

- ensure free condensate drainage;
- prevent the inadvertent entry of air into the circuit under negative pressure;
- prevent the inadvertent leakage of air from the pressurised circuit;
- prevent the entry of unpleasant odours and insects.

Follow the indications below when sizing siphons on trays in negative and positive pressure.



Negative pressure:

$$H1 = 2P$$
$$H2 = H1 / 2$$

Positive pressure:

$$H1 = 2P$$
$$H2 = H1 / 2$$

where P is pressure expressed in mm (water gauge) (1 mm c.a. = 9.81 Pa)

The siphon should have a plug to facilitate cleaning of the lower section, and be easy to disassemble.

Connection of water coils

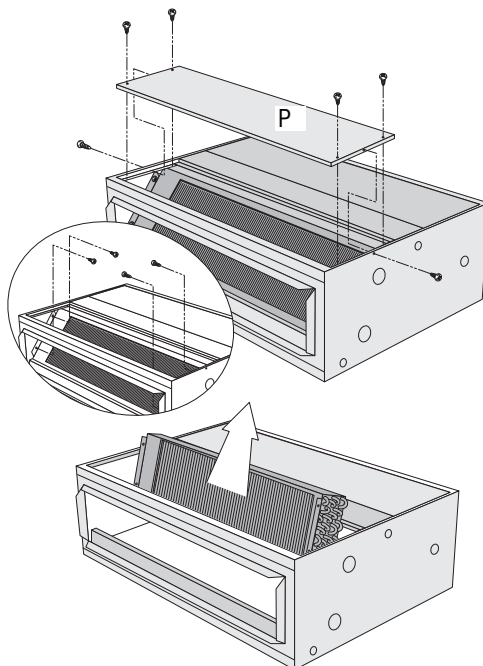
- Heat exchange coils have manifolds with threaded terminals 1" G UNI 338 on close nipples supplied not assembled. Those nipples allow to change the header side, if necessary (the units are supplied with headers at the right hand side). To change the orientation follow the instructions below.
- The tubes should be arranged in such a way as to allow removal of the coil and opening of unit inspection panels on the bottom of the unit.
- Water inlets and outlets should be arranged in such a way as to ensure counter-flow heat exchange. Follow the information given on the WATER INLET and WATER OUTLET plates.
- Fit a breather valve above and a discharge valve below.
- Position and support tubes on unit exterior by brackets to relieve the coil of excessive weight.
- Pipes should be insulated thoroughly over the entire surface to prevent the risk of burning.

- La coibentazione deve giungere a filo pannello per evitare pericolo di scottature.
- Prevedere, a livello di regolazione, l'intercettazione della batteria lato tubi a ventilatore spento per evitare surriscaldamento dell'interno della centrale con possibile danneggiamento di alcuni componenti.
- Prevedere dispositivi antigelo.
- Prevedere valvole di intercettazione per isolare la batteria dal resto del circuito in caso di manutenzione straordinaria.

- *Install a tube side coil shut-off device for when the fan is not operating to prevent overheating inside the unit and consequent damage to unit components.*
- *Install antifreeze devices .*
- *Install shut-off valves to isolate the coil from the rest of the circuit in the event of special maintenance.*

Inversione del lato attacchi

- Smontare il pannello P sopra la batteria
- Svitare, da ambo i lati della macchina, le viti
- Sfilare la batteria dall'alto
- Capovolgere la batteria e ri-infiarla nella struttura
- Riavvitare le viti
- Richiudere il pannello P



How to change the connections side

- *Remove the top panel P*
- *Unscrew, both sides of the unit, the screws*
- *Remove the coil from top*
- *Rotate the coil vertically and install again in the casing*
- *Screw again the screws*
- *Close the panel P*

Collegamenti elettrici motori

I collegamenti elettrici si effettuano sulla morsettiera montata sulla coclea di uno dei ventilatori.

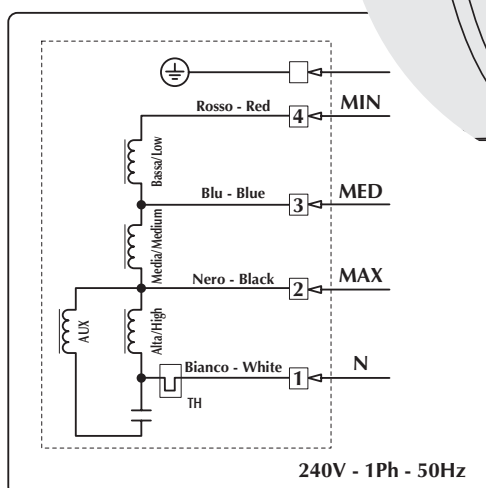
Nelle unità dotate di 2 o 3 motori (UT 5-6-7) i cavi di alimentazione e di terra sono riportati su una morsettiera per ogni ventilaore. Per i collegamenti all'interruttore/commutatore di velocità, seguire lo schema seguente:

Electrical wiring of fan motor

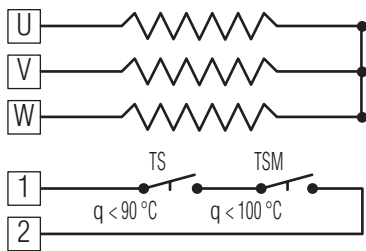
The wiring of the fan motors shall be done at the connecting terminal placed at one side of the fan scroll.

Also for the units with two or three motors (UT 5-6-7), the wires are joined in one connecting terminal for each fan.

For the connections to the switch/velocity changeover switch, follow the following diagram:



Collegamenti della batteria elettrica (UxBR)



Schema elettrico 1 Stadio 400V-3-50Hz

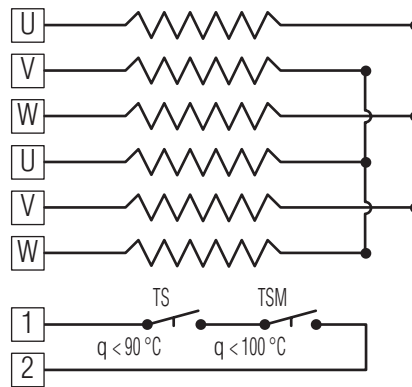
LEGENDA

- TS:** termostato limite
TSM: termostato di sicurezza a riarmo manuale

ATTENZIONE

- Collegare sempre il termostato di sicurezza per garantire l'interruzione dell'alimentazione della batteria elettrica in caso di sovratemperatura.
- Asservire l'alimentazione della batteria elettrica al funzionamento del ventilatore

Electric coil wiring (UxBR)



Schema elettrico 2 Stadi 400V-3-50Hz

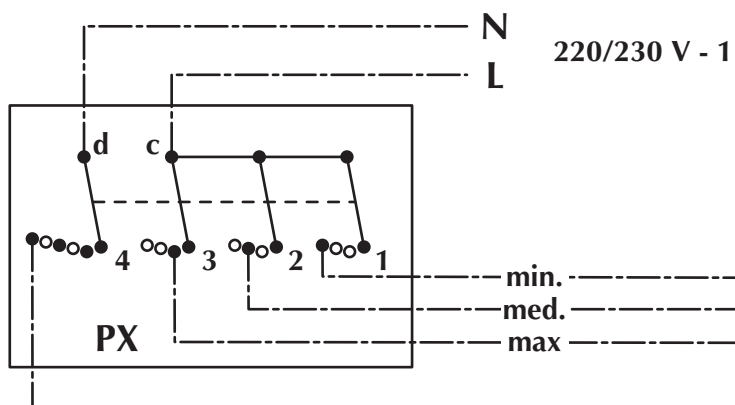
LEGENDA

- TS:** limit thermostat
TSM: safety thermostat with manual reset

ATTENTION

- Always connect the safety thermostat to ensure the interruption of the feed to the electric battery in case of overtemperature.
- The feed to the electric battery must be automatically interrupted if the fan is not running.

Collegamenti del ventilatore con commutatore PX



Wiring of fan with control panel PX

220/230 V - 1 - 50Hz

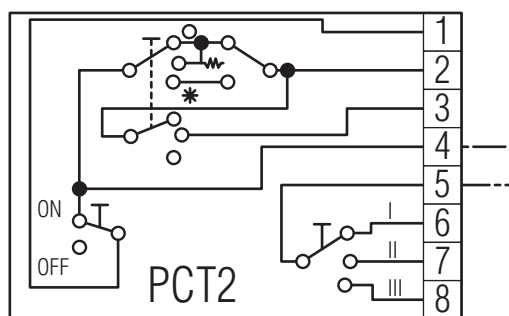
NOTA:

- adatto al comando diretto solo per le grandezze UT1 - UT2 - UT3 - UT4

NOTE:

- suitable for direct feed for sizes UT1 - UT2 - UT3 - UT4 only:

Collegamenti ventilatore con commutatore PCT2

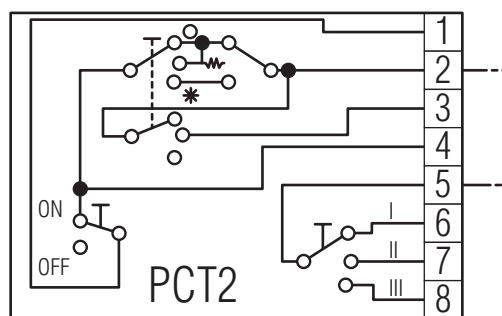


Ventilatore sempre in funzione
Fan always running

NOTA:

- adatto al comando diretto solo per le grandezze UT1 - UT2 - UT3 - UT4

Wiring of fan with control panel PCT2

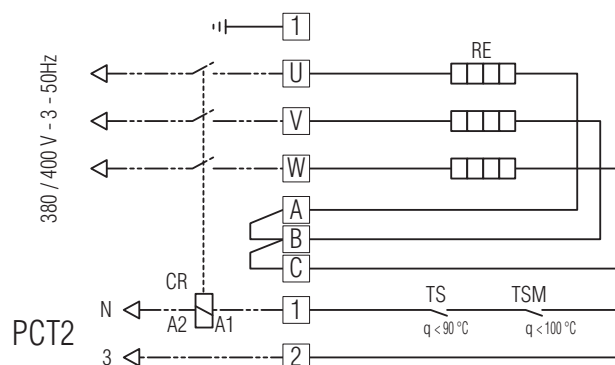


Ventilatore termostato
Fan running on thermostat demand

NOTE:

- suitable for direct feed for sizes UT1 - UT2 - UT3 - UT4 only:

Collegamenti batteria elettrica ad 1 stadio con commutatore PCT2



NOTA:

- il collegamento a due stadi della batteria non è possibile con il pannello comandi PCT2.
Prevedere un termostato a due gradini

NOTE:

- the wiring of the electric coil with two steps is not possible with PCT2 control panel.
A two steps controller shall be provided

Verifiche al primo avviamento

Prima di avviare l'unità UT verificare:

- ancoraggio dell'unità
- connessione del cavo di terra
- eventuale collegamento dei canali
- chiusura dei pannelli ispezionabili
- collegamento dello scarico condensa con sifone
- isolamento dei tubi di alimentazione della batteria
- connessione del cavo di terra della batteria elettrica (UxEB tensione disponibile

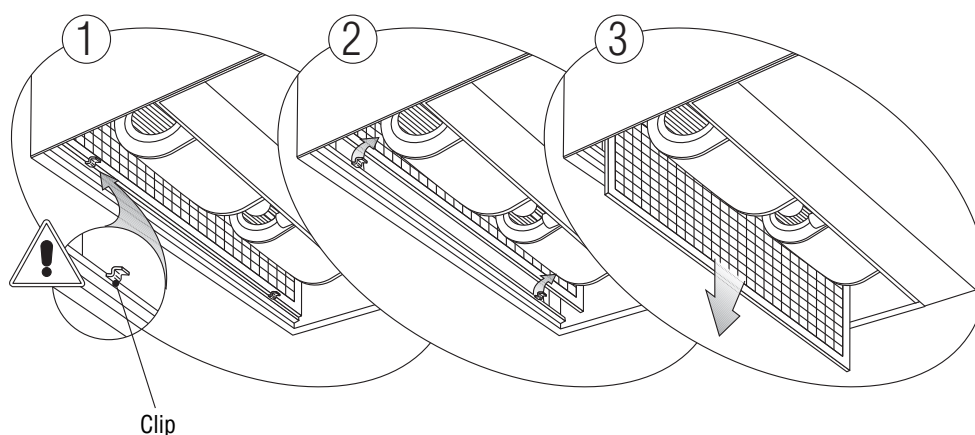
A macchina in **funzione** verificare:

- assorbimento elettrico
- portata d'aria

Manutenzione

Con frequenza indicata devono essere effettuate, per i componenti installati, le operazioni descritte nella tabella seguente. La periodicità indicata è indicativa (media): particolarmente per i filtri lo sporco può essere molto diverso a seconda della funzione della unità UT. I filtri, tenuti in posizione da un sistema a clips, si sfilano facendoli passare attorno alle coclee dei ventilatori e facendoli uscire dal pannello adiacente. L'ispezione dei ventilatori è possibile rimuovendo uno dei pannelli attorno ai ventilatori stessi.

L'ispezione della batteria è possibile rimuovendo il pannello al di sopra della batteria stessa.



First startup checks

Before the first startup of the UT unit check the following points:

- fastening of the unit at the ceiling or at the wall
- fastening hearth wiring
- fastening duct connection
- fastening fastening of the inspection panels
- fastening connection of drain with trap
- fastening insulation of the headers of the water coil
- fastening wiring of the electric coil (UxEB) available voltage

With the unit in **operation** check:

- fastening absorbed current
- fastening air flow

Maintenance

Maintenance should be carried out at the intervals indicated in the table below. Intervals are indicative; in the case of filters, for example, maintenance requirements may vary according to unit applications.

The filters, held in position by means of a clips system, can be slid out around the fan scrolls after removing the inspection panel near to the panel holding the filter.

The inspection of fans and of the drain pan is possible removing one of the panels near to the fans.

The inspection of the coil is possible removing the panel over the coil.

Componente	Operazioni	Controllo	Periodicità
Ventilatori	Controllo pulizia della girante	Visivo	Annuale
	Controllo rumorosità cuscinetti	Visivo	Annuale
Filtri sintetici	Controllo sporco	Visivo	Bisestrale
Batterie	Controllo pulizia pacco	Visivo	Annuale

Mod.	UT1	UT2	UT3	UT4	UT5	UT6	UT7
n° celle	1	1	1	1	1	1	2
Codice	6019210	6019211	6019212	6019213	6019214	6019215	6019216
Dimensioni	670x200x23	770x200x23	970x200x23	770x320x23	970x320x23	1270x320x23	1920x320x2

Component	Phase	Check	Sch. time
Fans	Check Wheel	Visual	yearly
	Check bearings	Visual	yearly
Synthetic filters	Check dust	Visual	fortnightly
Coils	Check fins	Visual	yearly

Mod.	UT1	UT2	UT3	UT4	UT5	UT6	UT7
n° cells	1	1	1	1	1	1	2
Code	6019210	6019211	6019212	6019213	6019214	6019215	6019216
Dimensions	670x200x23	770x200x23	970x200x23	770x320x23	970x320x23	1270x320x23	1920x320x2

Smaltimento

A fine vita la unità UT deve essere smaltita conformemente a quanto previsto dalla normativa vigente.

I materiali componenti le unità UT sono:
lamiera d'acciaio zincato
rame

Norme di Sicurezza

Nel corso dell'installazione, messa in funzione, uso e manutenzione delle centrali di trattamento aria le seguenti norme di sicurezza devono essere rispettate:

- Fare attenzione nel sollevamento della unità il cui baricentro può anche essere fuori asse.
- Non mettere in funzione la unità senza che essa stessa ed i suoi componenti elettrici siano stati collegati all'impianto di terra dell'edificio.
- Nelle unità base (ventilatori in vista) non mettere in funzione la unità se la stessa non è stata montata all'interno di un vano accessibile solo con l'uso di utensili.
- Non usare la unità come sostegno per altro macchinario.
- Non lasciare all'interno dell'unità utensili, stracci, parti di ricambio, ecc.
- Prima di accedere alla unità assicurarsi che tutte le utenze elettriche siano state interrotte. In particolare prima di aprire i pannelli d'ispezione accertarsi che il ventilatore sia spento e che non possa essere riacceso all'insaputa di chi sta intervenendo sulla unità stessa.
- Non lasciare i pannelli d'ispezione parzialmente chiuse; accertarsi che tutte le viti siano perfettamente serrate.
- Fare attenzione agli spigoli di lamiera all'interno della unità.
- Fare attenzione agli spigoli esterni dell'unità.
- Fare attenzione alle possibili scottature derivanti da batterie di riscaldamento

Waste disposal

At the end of its operating life the UT unit must be disposed according to the law.

*The UT units are manufactured with:
galvanized steel plates
copper
polyurethane foam*

Warnings and safety regulations

Observe the following regulations when installing, starting up, using and servicing air handling units:

- *When lifting, bear in mind that the centre of gravity of the unit may be off-centre.*
- *Always make sure that the unit and all its electric parts have been correctly earthed prior to starting up the unit.*
- *In the basic units don't start the unit if the unit itself is not closed inside a room accessible only with the use of proper tools.*
- *Never use the unit to support other equipment.*
- *Never leave tools, spare parts, etc. inside the unit.*
- *Before opening the unit, make sure that all electrical parts have been switched off. In particular, make sure that the fan is off and cannot be inadvertently started prior to opening inspection panels.*
- *Make sure that all inspection panels are closed properly.*
- *Beware of sharp edges inside the unit.*
- *Beware of roof corners of outdoor units.*
- *Beware of heat exchange coils: danger of burning.*

Malfunzionamento	Possibile causa	Da verificare	Possibile soluzione
• Portata d'aria eccessiva	• Perdite di carico del sistema di distribuzione sovrastimate	• Portata e press. statica Velocità ventilatore	• Riduzione della velocità di rotazione del ventilatore • Inserimento di una perdita di carico nel canale
• Portata d'aria scarsa	• Perdite di carico del sistema di distribuzione sottostimate	Portata e press. statica Velocità ventilatore	Incremento della velocità del ventilatore
• Rumorosità eccessiva	• Portata eccessiva • Rottura cuscinetti • Rottura di lamierati • Mancata equilibratura delle parti rotanti	• Portata • Cuscinetti • Integrità componenti • Vibrazioni sul basamento del ventilatore	• Ridurre la portata • Sostituire i cuscinetti • Sostituire le parti danneggiate • Riequilibrare la girante
• Trascinamento d'acqua	• Sifone intasato • Sifone mancante		• Pulire il sifone • Inserire un sifone
• Mancato raggiungimento delle temperature volute	• Portata d'aria eccessiva • Temperature d'ingresso non previste	• Portata	• Ridurre la portata
• Presenza d'aria nella batteria	• Portata d'acqua insuff. • Temperatura acqua insufficiente		• Sfiatare la batteria

FAULT	POSSIBLE CAUSE	CHECK	REMEDIES
• Excessive air flow	• Air distribution system load loss has been overestimated.	• Capacity and static pressure • Fan speed	• Reduce fan rotation speed • Create load loss in ducting
• Insufficient air flow	Air distribution system load loss has been underestimated	• Capacity and static press. • Fan speed	• Increase fan speed
• Excessive noise	• Flow too high • Head too high • Bearings are damaged • Metal components damaged. • Rotating parts off balance	• Capacity • Static pressure • Bearings • State of components • Vibrations at fan	• Reduce air flow. • Replace bearings. • Replace damaged parts. • Balance fan impeller.
• Water entrainment	• Flow too high. • Siphon is clogged. • No siphon. • Excess water flow.	• Flow. • By-pass adjustment.	• Reduce flow. • Clean siphon. • Fit a siphon. • Adjust by-pass valve to reduce water flow.
• Set temperature not reached.	• Air flow too high. • Inlet temperature not accounted for. • Air in coil. • Water flow insufficient. • Water temperature too low	• Air flow.	• Reduce air flow. • Bleed air from coil.

SERVIZI ASSISTENZA

VALLE D'AOSTA			
AOSTA	D.AIR di Squaiella D. & Bidoggia C. snc	Via Chambery 79/7 - 10142 Torino	011 7708 112
PIEMONTE			
ALESSANDRIA - ASTI - CUNEO	BELLISI s.r.l.	Corso Savona, 245 - 14100 Asti	0141 556 268
BIELLA - VERCELLI	LOMBARDI SERVICES s.r.l.	Via Delle industrie, 34 - 13856 Vigliano Biellese (BI)	0152 543 189
NOVARA - VERBANIA (tutta la gamma esclusi split system)	AIR CLIMA SERVICE di F. & C. s.a.s.	Via Pertini, 9 - 21021 Angera (VA)	0331 932 110
NOVARA - VERBANIA (split system)	Cl. Elle Clima snc di Benvegnù L.	Via S. Anna, 6 - 21018 Sesto Calende (VA)	0331 914 186
TORINO	AERSAT TORINO snc di Borioli Secondino & C.	Strada Bertolla, 163 - 10156 Torino	0115 611 220
	D.AIR di Squaiella D. & Bidoggia C. snc	Via Chambery 79/7 - 10142 Torino	011 7708 112
LIGURIA			
GENOVA	BRINZO ANDREA	Via Del Commercio, 27 1/C2 - 16167 Genova Nervi	0103 298 314
IMPERIA	AERFRIGO di A. Amborno e C. s.n.c .	Via Z. Massa, 152/154 - 18038 Sanremo (IM)	0184 575 257
LA SPEZIA	TECNOFRIGO di Veracini Nandino	Via Lunense, 59 - 54036 Marina di Carrara (MS)	0585 631 831
SAVONA	CLIMA COLD di Pignataro D.	Via Risorgimento, 11 - 17031 Albenga (SV)	0182 51 176
LOMBARDIA			
BERGAMO	ESSEBI di Sironi Bruno e C. sas	Via Pacinotti, 98 - 24100 Bergamo	0354 536 670
BRESCIA	TERMOTEC. di Vitali G. & C. s.n.c.	Via G. Galilei - Trav. I ^o , 2 - 25010 S. Zeno S. Naviglio (BS)	0302 160 812
COMO - SONDRIO - LECCO	PROGIELT di Libeccio & C. s.r.l.	Via Rigamonti, 21 - 22020 San Fermo della Battaglia (CO)	031 536 423
CREMONA	MORETTI ALBANO & C. s.n.c.	Via Manini, 2/C - 26100 Cremona	0372 461935
MANTOVA	F.LLI COBELLI di Cobelli Davide & C. s.n.c.	Via Tezze, 1 - 46040 Cavriana (MN)	0376 826 174
MILANO - LODI - Zona cremasca	CLIMA CONFORT di O. Mazzoleni	Via A. Moro, 113 - 20097 S. Donato Milanese (MI)	349 2350787
	CLIMA LODI di Salì Cristian	Via Felice Cavallotti, 29 - 26900 Lodi	0371 549 304
	CRIO SERVICE s.r.l.	Via Gallarate, 353 - 20151 Milano	0233 498 280
	S.A.T.I.C. di Lovato Dario	Via G. Galilei, 2 int. A/2 - 20060 Cassina dè Pecchi (MI)	0295 299 034
	BATTISTON GIAN LUIGI	Via Liguria, 4/A - 27058 Voghera (PV)	038 362 253
PAVIA			
VARESE (tutta la gamma esclusi split system)	AIR CLIMA SERVICE di F. & C. s.a.s.	Via Pertini, 9 - 21021 Angera (VA)	0331 932 110
VARESE (split system)	Cl. Elle Clima snc di Benvegnù L.	Via S. Anna, 6 - 21018 Sesto Calende (VA)	0331 914 186
TRENTINO ALTO ADIGE			
BOLZANO - TRENTO	SESTER F. s.n.c. di Sester A. & C.	Via E. Fermi, 12 - 38100 Trento	0461 920 179
FRIULI VENEZIA GIULIA			
PORDENONE	CENTRO TECNICO s.n.c. di Menegazzo G. & C.	Via Conegliano, 94/A - 31058 Susegana (TV)	0438 450 271
TRIESTE - GORIZIA	LA CLIMATIZZAZIONE TRIESTE SRL	Strada della Rosandra, 269 - 34018 San Dorligo della Valle(TS)	040 828 080
UDINE	S.A.R.E. di Musso Dino	Corso S. Valentino, 4 - 33050 Frafareano (UD)	0432 699 810
VENETO			
BELLUNO	FONTANA SOFFIRO FRIGORIFERI s.n.c.	Via Sampoì, 68 - 32020 Limana (BL)	0437 970 042
LEGNAGO	DE TOGNI STEFANO	Via De Nicola, 2 - 37045 Legnago (VR)	044 220 327
PADOVA	CLIMAIR s.a.s. di F. Cavestro & C.	Via Austria, 21 - Z.I. - 35127 Padova	049 772 324
ROVIGO	FORNASINI MAURO	Via Sammartina, 18/A - 44040 Chiesuol del Fosso (FE)	0532 978 450
TREVISO	CENTRO TECNICO s.n.c. di Menegazzo G. & C.	Via Conegliano, 94/A - 31058 Susegana (TV)	0438 450 271
VENEZIA (centro)	SIMIONATO GIANNI	Via Trento, 29 - 30174 Mestre (VE)	041 959 888
VENEZIA (escluso centro) e provincia	S.M. s.n.c. di Spolaore Andrea e Musner Maurizio	Via Fapanni 41/D - 30030 Martellago (VE)	0415 402 047
VERONA (escluso LEGNAGO)	ALBERTI FRANCESCO	Via Tombetta, 82 - 37135 Verona	045 509 410
VICENZA (split system)	ASSICLIMA di Colpo Donato	Via Capitello, 63/c - 36010 Cavazzale (VI)	336-813963
VICENZA	BIANCHINI GIOVANNI & IVAN snc	Via G. Galilei, 1Z - Loc. Nogarazza - 36057 Arcugnano (VI)	0444 569 481
EMILIA ROMAGNA			
BOLOGNA	EFFEPI s.n.c. di Ferrazzano & Proto	Via I ^o Maggio, 13/8 - 40044 Pontecchio Marconi (BO)	0516 781 146
FERRARA	FORNASINI MAURO	Via Sammartina, 18/A - 44040 Chiesuol del Fosso (FE)	0532 978 450
FORLÌ - RAVENNA - RIMINI	ALPI GIUSEPPE	Via N. Copernico, 100 - 47100 Forlì	0543 725 589
MODENA Nord	CLIMASERVICE di Golinelli Stefano	Via Per Modena, 18/E - 41034 Finale Emilia (MO)	053 592 156
MODENA Sud	AERSAT s.n.c. di Leggio M. & Lolli S.	Piazza Beccadori, 19 - 41057 Spilamberto (MO)	059 782 908
PARMA	ALFATERMICA s.n.c. Galbano & Biondo	Via Mantova, 161 - 43100 Parma	0521 776 771
PIACENZA	MORETTI ALBANO & C. s.n.c.	Via Manini, 2/C - 26100 Cremona	0372 433 624
REGGIO EMILIA	ECOCLIMA S.r.l.	Via Maestri del lavoro, 14 - 42100 Reggio Emilia	0522 558 709
TOSCANA			
AREZZO	CLIMA SERVICE ETRURIA s.n.c.	Via G. Caboto, 69/71/73/75 - 52100 Arezzo	0575 900 700
FIRENZE - PRATO	S.E.A.T. di Benedetti Giancarlo	Via P. Fanfani, 55 - 50127 Firenze	0554 255 721
GROSSETO	ACQUA e ARIA SERVICE s.r.l.	Via D. Lazzaretti, 8A - 58100 Grosseto	0564 410 579
LIVORNO - PISA	SEA s.n.c. di Rocchi R. & C.	Via dell'Artigianato, Loc.Picchianti - 57121 Livorno	0586 426 471
LUCCA - PISTOIA	FRIGOTEC. s.n.c. G. & MC. BENEDETTI	Via V. Civitali, 2 - 55100 Lucca	0583 491 089
MASSA CARRARA	TECNOFRIGO di Veracini Nandino	Via Lunense, 59 - 54036 Marina di Carrara (MS)	0585 631 831
SIENA	FRIGOTECNICA SENESE s.n.c. di B. & C.	Strada di Cerchiaia, 42 - Z.A. 53100 Siena	0577 284 330
MARCHE			
ANCONA - PESARO	AERSAT snc di Marchetti S. & Sisti F.	Via M. Ricci, 16/A - 60020 Palombina (AN)	071 889 435
MACERATA - ASCOLI PICENO	CAST s.n.c. di Antinori-Cardinali & R.	Via D. Alighieri, 68 - 62010 Morrovalle (MC)	0733 865 271
UMBRIA			
PERUGIA	A.I.T. s.r.l.	Via dell'industria, Z.I. Molinaccio - 06154 Ponte S. Giovanni (PG)	0755 990 564
TERNI	CAPOCCETTI OTELLO	Via G. Medici, 14 - 05100 Terni	0744 277 169
ABRUZZO			
CHIETI - PESCARA - TERAMO - L'AQUILA			
ISERNIA - CAMPOBASSO	PETRONGOLO DINO	Via Torremontanara, 30 - 66010 Torre Vecchia Teatina (CH)	0871 360 311
LAZIO			
FROSINONE - LATINA	MASTROGIACOMO AIR SERVICE - M. C.	P.zza Berardi, 16 - 03023 Ceccano (FR)	0775 601 403
RIETI	CAPOCCETTI OTELLO	Via G. Medici, 14 - 05100 Terni	0744 277 169
ROMA	TAGLIAFERRI 2001 s.r.l.	Via Guidonia Montecelio snc - 00191 Roma	06 331 234
VITERBO	AIR FRIGO di Massimo Piacentini	Viale Baccelli, 74 - 00053 Civitavecchia (RM)	0766 541 945
CAMPANIA			
AVELLINO - SALERNO	SAIT s.r.l.	Via G. Deledda, 10 - 84010 San Marzano sul Sarno (SA)	0815 178 451
CAPRI	CATALDO COSTANZO	Via Tiberio, 7/F - 80073 Capri (NA)	0818 378 479
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SALERNO	GDS TECNO	Via Acquasanta, 16 Z.I. - 84131 Salerno	089 771 167
PUGLIA			
BARI	KLIAMFRIGO s.r.l.	Via Vallone, 81 - 70121 Bari	0805 538 044
FOGGIA	CLIMACENTER di Amedeo Nardella	Via Carmicelli, 29 Pal. A Sc. A - 71016 San Severo (FG)	3396 522 443
LECCE - BRINDISI	GRASSO VINCENZO	Zona P.I.P. - Lotto n. 38 - 73052 Parabita (LE)	0833 595 267
TARANTO	ORLANDO PASQUALE	Via Vespucci, 5 - 74023 Grottaglie (TA)	0995 639 823
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MATERA - POTENZA	AERLUCANA di A. Scalcione	Via Dei Peucezi, 23 - 75100 Matera	0835 381 467
MOLISE			
CAMPOBASSO - ISERNIA	PETRONGOLO DINO	Via Torremontanara, 30 - 66010 Torre Vecchia Teatina (CH)	0871 360 311
CALABRIA			
CATANZARO - CROTONE	A.E.C. di Ranieri Annarita	Via B. Miraglia, 72 - 88100 Catanzaro	0961 771 123
COSENZA	CLIMA SUD s.n.c. dei F.lli Mandarinò	Via Tevere, 84/86 - 87030 Roges di Rende (CS)	0984 465 004
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REGGIO CALABRIA - VIBO VALENTIA	MANUTENSUD di Antonio Amato	Via F. Cilea, 62 - 88065 Guardavalle (CZ)	096 786 516
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ENNA - CALTANISSETTA - AGRIGENTO	FONTI FILIPPO	Viale Aldo Moro, 141 - 93019 Sommatino (CL)	0922 871 333
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