

**Unità canalizzabili da 6,7 kW a 68,5 kW**  
**Ductable units from 6,7 kW to 68,5 kW**

Vers.01/2018



ISO 9001  
ISO 10014



## CARATTERISTICHE GENERALI

Le unità terminali di trattamento aria a moduli componibili **mod. DAT** presentano una gamma di modelli a 2 e 4 tubi con capacità da 6,7 kW a 68,5 kW. Le unità trovano applicazione in esercizi commerciali, ristoranti, bar e abitazioni civili qualora si desideri condizionare più ambienti in modo efficiente e discreto, data la loro installazione orizzontale a controsoffitto canalizzabile. Possono essere collegate direttamente alla caldaia e/o a un gruppo frigorifero. Disponibili in vari modelli con numerosi accessori a complemento.

- 2 differenti motorizzazioni, 6 Poli e 4 Poli

## GENERAL FEATURES

The ductable units **mod. DAT** with modular components offering a varying cooling capacity range from 6,7 kW up to 68,5 kW. These units are best suited to restaurant, commercial and residential accommodation. Should there be a need to increase the cooling load, this can be achieved in an efficient and orderly manner by installing the units in the ceiling void. The units can also be coupled directly to a boiler unit and/or a chiller unit. Several accessories for the various units are available

- 2 different motor type: 6 and 4 poles

## CARATTERISTICHE COSTRUTTIVE E COMPONENTI PRINCIPALI

**Mobile di copertura:** struttura portante in lamiera di forte spessore resistente alla ruggine, corrosione, agenti chimici, solventi ecc... Pannelli autoportanti e smontabili, assemblaggio con viti autofilettanti per una rapida e facile manutenzione.

Versioni disponibili:

-da incasso, pannello in lamiera zincata con fori ricavati direttamente sulla cassa portante per il fissaggio a muro/soffitto e isolamento termoacustico

**Bacinella raccogli condensa:** in lamiera zincata e isolamento termico

**Batteria ad acqua:** installata all'interno di un box. Batteria di scambio termico ad alta efficienza in tubo di rame ed alette di alluminio bloccate mediante espansione meccanica. Batteria senza valvole di sfiato aria. Attacchi a destra (standard). A richiesta attacchi a sinistra.

**Gruppo ventilante:** Ventilatore centrifugo installato all'interno di un box. Gruppo ventilante costituito da ventilatori centrifughi a doppia aspirazione con ventole in alluminio direttamente accoppiate al motore elettrico. Montaggio su supporti elastici ed ammortizzatori. Ventilatori equilibrati staticamente e dinamicamente. Ventole di grande diametro con basso numero di giri.

**Morsettiera:** tipo "MAMUT" IP20 montata all'esterno dell'unità.

## TECHNICAL FEATURES AND MAIN COMPONENTS

**Cabinet:** Bearing structure in thick steel-sheet, rust, corrosion, chemical agents and solvents resistant. Self-supporting and removable panels, assembling by means of screw for easy and fast maintenance.

Available versions:

-Concealed, in galvanized steel with wall/ceiling fixing holes on the bearing structure and thermo-acoustic insulation.

**Drain pan:** in galvanized steel and thermo-acoustic insulation

**Water coil:** installed inside a box. High efficient coil made by copper pipes and aluminum fins fixed by mechanical expansion. Coils with no air vent valves. Standard connection on the right side. On left side on demand.

**Fan:** centrifugal fan mounted on a box. Fan section with centrifugal fan with double air inlet, provided with aluminum blades directly coupled to the electrical motor.

Mounted on elastic and anti-vibration supports.

Fans statically and dynamically balanced.

Big sizes with low revolutions.

**Terminal board:** external mammoth type terminal board mod. IP20

## ACCESSORI

## ACCESSORIES

Kit accessorio comando remoto a parete fan confort 230Vac, con OFF/Estate/Inverno  
Wall mounted remote thermostat 230Vac, with OFF/Summer/Winter

Kit accessorio comando remoto a parete/incasso digitale ON/OFF  
Embedding room/in build thermostat with display ON/OFF

Kit accessorio comando remoto a parete versione BMS  
BMS wall version remote control

Kit accessorio telecomando IR per unità terminali: gestione unità 2-4 tubi, con/senza valvole  
Electric chart for remote control: control 2-4 pipes unit, with/without valves

Kit predisposizione telecomando unità terminali - Electric chart for remote control

Kit predisposizione interfaccia BMS, Modbus, valvola modulante e ON/OFF  
Interface arrangement for BMS, Modbus, modulating and ON/OFF



Termostato di minima: permette di regolare l'accensione della ventilazione solo quando l'acqua di alimentazione raggiunge la temperatura di minima resa. In modalità caldo al raggiungimento della temperatura di mandata di 36°C il ventilatore si attiva. In modalità freddo al raggiungimento della temperatura di mandata di 14°C il ventilatore si attiva

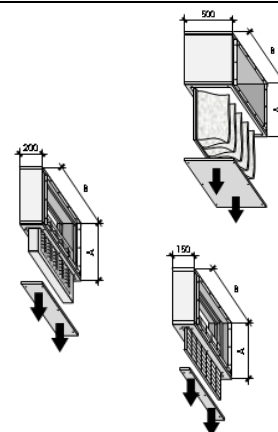
Minimum temperature thermostat: it allows to set the switching on of ventilation only if the water supply reaches the minimum power output temperature.  
Heating mode: the fan starts when the flow temperature is 36°C  
Cooling mode: the fan starts when the flow temperature is 14°C



PFT Sezione filtro aria canalizzabile + filtro aria a tasche  
PFT Ductable air filter section + pocket bags air filter

PFO Sezione filtro aia canalizzabile + filtro aria ondulato  
PFO Ductable air filter section + undulated air filter

PFA sezione filtro aria canalizzabile + filtro aria piano  
PFA Ductable air filter section + flat air filter



Kit carter morsettiera  
Metal cover for terminal board



MEP: modulo elevatore potenza -max 4 unità  
MEP: elevator power module -max 4 unit

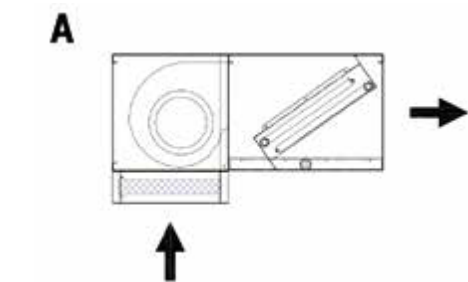


Valvola 2-vie 3/4" ON-OFF 230V - 2-way valve 3/4" ON/OFF 230V  
Valvola 2-vie 3/4" modulante 0-10V 24V - 2-way modulating valve 3/4" 0-10V 24V  
Valvola 3-vie 3/4" ON-OFF - 3-way valve 3/4" ON-OFF  
Valvola 3-vie 3/4" modulante 0-10V 24V - 3-way modulating valve 3/4" 0-10V 24V  
Valvola a 3-vie 1" modulante a 3 punti - 3-way 3 points modulating valve 1"

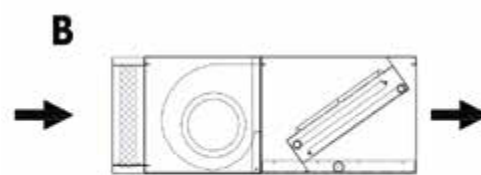


## CONFIGURAZIONI zincato incasso

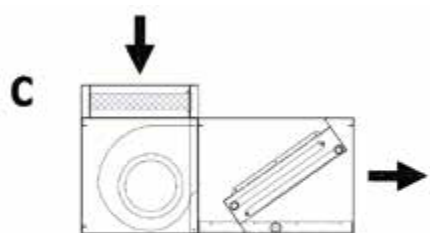
## Galvanized concealed CONFIGURATIONS



**ASPIRAZIONE ARIA POSTERIORE**  
**BACK AIR INTAKE** Filtro - Air filter mm 10



**ASPIRAZIONE ARIA FRONTALE**  
**FRONTAL AIR INTAKE** Filtro - Air filter mm 10



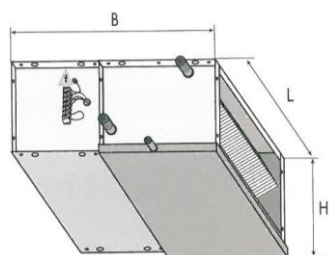
**ASPIRAZIONE ARIA DA SOPRA**  
**UPPER AIR INTAKE** Filtro - Air filter mm 10



**ASPIRAZIONE ARIA FRONTALE**  
**FRONTAL AIR INTAKE** Filtro - Air filter mm 10

## DISEGNO DIMENSIONALE

## DIMENSIONAL DRAWING



**3R / 2 TUBI-PIPES**  
**3R+2R / 4 TUBI-PIPES**

		103	203	303	403	503	703	803	903	1003
L	mm	560	660	760	760	1160	1360	1360	1660	1660
B	mm	840	995	1105	1160	995	1105	1160	1450	1450
H	mm	360	425	425	480	425	425	480	580	580
		104	204	304	304	504	704	804	904	1004
L	mm	560	660	760	760	1160	1360	1360	1660	1660
B	mm	840	995	1105	1160	995	1105	1160	1450	1450
H	mm	360	425	425	480	425	425	480	580	580

Modello - Model		<b>3R / 2 TUBI-PIPES</b>								
		103	203	303	403	503	703	803	903	1003
Connessioni idrauliche - Hydraulic connection		3/4	1" M			1"-1/4 M	1"-1/2 M			
Scarico condensa - Drain pipe	mm	30								
Nr. Ventilatori/Motori - Fans/Motors number	Nr/Nr	1/1					2/2			

Modello - Model		<b>3R+2R / 4 TUBI-PIPES</b>								
		104	204	304	404	504	704	804	904	1004
Connessioni idrauliche - Hydraulic connection	3R	3/4"	1" M			1"-1/4 M	1"-1/2 M			
Connessioni idrauliche - Hydraulic connection	2R	3/4"	1" M			1"-1/4 M	1"-1/4 M			
Scarico condensa - Drain pipe	mm	30								
Nr. Ventilatori/Motori - Fans/Motors number	Nr/Nr	1/1					2/2			

## CARATTERISTICHE TECNICHE – TECHNICAL FEATURES

### 3 R - ESP 0

	SPEED	103			203			303			
		1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>	m3/h	1.440	1.080	650	2.480	1.860	1.115	2.890	2.167	1.300	
	CFM	848	636	383	1.460	1.095	656	1.701	1.275	765	
Potenza Frigorifera totale – Total cooling capacity	kW	7,10	6,32	4,87	11,70	10,40	8,10	14,30	12,60	9,66	
Potenza Frigorifera sensibile - Sensible cooling	kW	5,80	4,67	3,31	9,80	7,80	5,55	11,70	9,18	6,52	
Portata acqua – Water flow	m3/h	1,22	1,22	1,22	2,01	2,01	2,01	2,46	2,46	2,46	
Perdita di carico – Water pressure drop	kPa	26,2	26,2	26,2	27,3	27,3	27,3	28,5	28,5	28,5	
Potenza Termica - Heating capacity	kW	16,70	13,90	9,48	28,20	23,20	15,90	34,00	27,90	18,90	
Portata acqua - Water flow	m3/h	1,44	1,44	1,44	2,43	2,43	2,43	2,92	2,92	2,92	
Perdita di carico - Water pressure drop	kPa	28,3	28,3	28,3	30,9	30,9	30,9	31,4	31,4	31,4	
Potenza assorbita – Absorbed power	4P	W	288	209	109	703	466	170	700	470	190
Corrente assorbita – Current input		A	1,80	1,60	1,10	3,40	2,80	1,40	3,80	3,00	1,60
Potenza assorbita – Absorbed power	6P	W	---	---	---	---	---	---	---	---	
Corrente assorbita – Current input		A	---	---	---	---	---	---	---	---	
Livello pressione sonora	4P	dB(A)	48	44	38	52	43	36	50	42	35
Sound pressure level	6P	dB(A)	---	---	---	---	---	---	---	---	
Peso unità incasso – Concealed unit weight	kg	35,8			46,6			55,7			

	SPEED	403			503			703			
		1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>	m3/h	3.350	2.512	1.500	4.970	3.727	2.236	5.770	4.327	2.598	
	CFM	1.972	1.479	883	2.925	2.194	1.316	3.396	2.547	1.529	
Potenza Frigorifera totale – Total cooling capacity	kW	16,50	14,70	11,30	24,00	21,40	16,60	29,30	26,10	20,26	
Potenza Frigorifera sensibile - Sensible cooling	kW	13,60	10,80	7,63	19,10	15,90	11,30	23,90	19,90	14,20	
Portata acqua – Water flow	m3/h	2,84	2,84	2,84	4,13	4,13	4,13	5,04	5,04	5,04	
Perdita di carico – Water pressure drop	kPa	25,9	25,9	25,9	25,7	25,7	25,7	26,0	26,0	26,0	
Potenza Termica - Heating capacity	kW	39,40	32,30	21,90	58,60	48,30	32,80	69,20	57,00	39,20	
Portata acqua - Water flow	m3/h	3,44	3,44	3,44	5,16	5,16	5,16	5,95	5,95	5,95	
Perdita di carico - Water pressure drop	kPa	30,2	30,2	30,2	29,9	29,9	29,9	36,2	36,2	36,2	
Potenza assorbita – Absorbed power	4P	W	---	---	---	1346	865	378	1584	983	444
Corrente assorbita – Current input		A	---	---	---	6,80	5,20	3,00	8,80	5,60	3,80
Potenza assorbita – Absorbed power	6P	W	703	466	252	---	---	---	---	---	
Corrente assorbita – Current input		A	3,40	2,80	2,00	---	---	---	---	---	
Livello pressione sonora	4P	dB(A)	---	---	---	55	46	39	53	45	38
Sound pressure level	6P	dB(A)	46	42	37	---	---	---	---	---	
Peso unità incasso – Concealed unit weight	kg	60,6			78,5			94,8			

	SPEED	803			903			1003			
		1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>	m3/h	---	---	---	---	---	---	10.800	8.400	7.000	
	CFM	---	---	---	---	---	---	6.357	4.944	4.120	
Potenza Frigorifera totale – Total cooling capacity	kW	---	---	---	---	---	---	65,50	58,20	52,80	
Potenza Frigorifera sensibile - Sensible cooling	kW	---	---	---	---	---	---	48,40	40,90	36,10	
Portata acqua – Water flow	m3/h	---	---	---	---	---	---	11,26	11,26	11,26	
Perdita di carico – Water pressure drop	kPa	---	---	---	---	---	---	37,0	37,0	37,0	
Potenza Termica - Heating capacity	kW	---	---	---	---	---	---	145,0	120,0	104,0	
Portata acqua - Water flow	m3/h	---	---	---	---	---	---	12,67	12,67	12,67	
Perdita di carico - Water pressure drop	kPa	---	---	---	---	---	---	37,0	37,0	37,0	
Potenza assorbita – Absorbed power	4P	W	---	---	---	---	---	---	---	---	
Corrente assorbita – Current input		A	---	---	---	---	---	---	---	---	
Potenza assorbita – Absorbed power	6P	W	---	---	---	---	---	2691	2280	1860	
Corrente assorbita – Current input		A	---	---	---	---	---	13,00	11,00	9,00	
Livello pressione sonora	4P	dB(A)	53	48	43	---	---	---	---	---	
Sound pressure level	6P	dB(A)	---	---	---	57	55	52	53	51	48
Peso unità incasso – Concealed unit weight	kg	103,5			179,1			181,1			

## CARATTERISTICHE TECNICHE – TECHNICAL FEATURES

### 3 R - ESP 50

		SPEED	103			203			303			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	1.300	1.000	590	2.400	1.800	1.080	2.790	2.100	1.250	
		CFM	765	589	347	1.413	1.059	636	1.642	1.236	736	
Potenza Frigorifera totale – Total cooling capacity		kW	6,69	6,00	4,54	11,50	10,20	7,92	14,00	12,40	9,39	
Potenza Frigorifera sensibile - Sensible cooling		kW	5,19	4,39	3,06	9,12	7,60	5,41	10,70	8,97	6,32	
Portata acqua – Water flow		m3/h	1,15	1,15	1,15	1,97	1,97	1,97	2,40	2,40	2,40	
Perdita di carico – Water pressure drop		kPa	18,0	18,0	18,0	26,0	26,0	26,0	27,0	27,0	27,0	
Potenza Termica - Heating capacity		kW	15,60	13,00	8,71	27,40	22,70	15,50	33,10	27,30	18,30	
Portata acqua - Water flow		m3/h	1,33	1,33	1,33	2,39	2,39	2,39	2,89	2,89	2,89	
Perdita di carico - Water pressure drop		kPa	24,1	24,1	24,1	29,9	29,9	29,9	30,7	30,7	30,7	
Potenza assorbita – Absorbed power		4P	W	272	224	110	663	449	169	683	367	164
Corrente assorbita – Current input			A	1,70	1,55	1,00	3,35	2,70	1,30	3,70	2,40	1,40
Potenza assorbita – Absorbed power		6P	W	---	---	---	---	---	---	---	---	
Corrente assorbita – Current input			A	---	---	---	---	---	---	---	---	

		SPEED	403			503			703			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	3.200	2.450	1.470	4.800	3.650	2.200	5.570	4.193	2.498	
		CFM	1.883	1.442	865	2.825	2.148	1.295	3.278	2.468	1.470	
Potenza Frigorifera totale – Total cooling capacity		kW	16,10	14,40	11,10	23,60	21,10	16,40	28,70	25,40	19,30	
Potenza Frigorifera sensibile - Sensible cooling		kW	12,50	10,60	7,49	18,70	15,70	11,20	22,10	18,50	13,00	
Portata acqua – Water flow		m3/h	2,77	2,77	2,77	4,05	4,05	4,05	4,93	4,93	4,93	
Perdita di carico – Water pressure drop		kPa	24,6	24,6	24,6	24,7	24,7	24,7	24,9	24,9	24,9	
Potenza Termica - Heating capacity		kW	37,90	31,70	21,50	57,10	47,50	32,40	67,30	55,40	37,10	
Portata acqua - Water flow		m3/h	3,31	3,31	3,31	4,99	4,99	4,99	5,88	5,88	5,88	
Perdita di carico - Water pressure drop		kPa	26,6	26,6	26,6	28,0	28,0	28,0	35,7	35,7	35,7	
Potenza assorbita – Absorbed power		4P	W	---	---	---	1267	832	392	1545	955	426
Corrente assorbita – Current input			A	---	---	---	6,40	5,00	2,80	8,60	6,24	3,65
Potenza assorbita – Absorbed power		6P	W	662	433	239	---	---	---	---	---	
Corrente assorbita – Current input			A	3,20	2,60	1,90	---	---	---	---	---	

		SPEED	803			903			1003		
			1	2	3	1	2	3	1	2	3
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	---	---	---	---	---	---	10.400	8.200	6.800
		CFM	---	---	---	---	---	---	6.121	4.826	4.002
Potenza Frigorifera totale – Total cooling capacity		kW	---	---	---	---	---	---	64,00	57,20	51,70
Potenza Frigorifera sensibile - Sensible cooling		kW	---	---	---	---	---	---	47,00	40,10	35,20
Portata acqua – Water flow		m3/h	---	---	---	---	---	---	11,00	11,00	11,00
Perdita di carico – Water pressure drop		kPa	---	---	---	---	---	---	35,40	35,40	35,40
Potenza Termica - Heating capacity		kW	---	---	---	---	---	---	141,0	118,0	102,0
Portata acqua - Water flow		m3/h	---	---	---	---	---	---	12,30	12,30	12,30
Perdita di carico - Water pressure drop		kPa	---	---	---	---	---	---	35,3	35,3	35,3
Potenza assorbita – Absorbed power		4P	W	---	---	---	---	---	---	---	---
Corrente assorbita – Current input			A	---	---	---	---	---	---	---	---
Potenza assorbita – Absorbed power		6P	W	---	---	---	---	---	2480	2190	1740
Corrente assorbita – Current input			A	---	---	---	---	---	---	12,00	10,60

Condizioni nominali di riferimento - Nominal References Conditions						Livello pressione sonora – Sound pressure level	
Raffrescamento	Cooling		Riscaldamento	Heating		Misurata in ambiente chiuso, in camera riverberante, tempo di riverbero 0,50s a 2 metri dall'unità, alla max velocità.	
Acqua ingresso	Water inlet	7°C	Acqua ingresso	Water inlet	70°C		
Acqua uscita	Water outlet	12°C	Acqua uscita	Water outlet	60°C	Measured in a closed room, in reverberation room, time of reverberation 0,50s, from 2 m of the unit, at max speed.	
Aria	Air	27°C	Aria	Air	20°C		
Umidità relativa	Relative humidity	47%					



## CARATTERISTICHE TECNICHE – TECHNICAL FEATURES

### 3 R - ESP 100

		SPEED	103			203			303			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	1.250	950	550	2.350	1.760	1.060	2.700	2.050	1.200	
		CFM	736	559	324	1.383	1.036	624	1.589	1.207	706	
Potenza Frigorifera totale – Total cooling capacity		kW	6,54	5,82	4,33	11,40	10,10	7,79	13,70	12,20	9,37	
Potenza Frigorifera sensibile - Sensible cooling		kW	5,05	4,23	2,90	9,60	7,49	5,30	10,50	8,81	6,31	
Portata acqua – Water flow		m3/h	1,12	1,12	1,12	1,96	1,96	1,96	2,36	2,36	2,36	
Perdita di carico – Water pressure drop		kPa	17,0	17,0	17,0	25,5	25,5	25,5	26,1	26,1	26,1	
Potenza Termica - Heating capacity		kW	15,20	12,60	8,21	27,00	22,30	15,10	32,30	25,90	17,30	
Portata acqua - Water flow		m3/h	1,32	1,32	1,32	2,36	2,36	2,36	2,82	2,82	2,82	
Perdita di carico - Water pressure drop		kPa	23,7	23,7	23,7	29,0	29,0	29,0	29,5	29,5	29,5	
Potenza assorbita – Absorbed power		4P	W	230	196	89	633	425	146	655	346	140
Corrente assorbita – Current input			A	1,60	1,50	0,9	3,20	2,55	1,20	3,55	2,20	1,20
Potenza assorbita – Absorbed power		6P	W	---	---	---	---	---	---	---	---	
Corrente assorbita – Current input			A	---	---	---	---	---	---	---	---	

		SPEED	403			503			703			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	3.000	2.400	1.430	4.700	3.600	2.140	5.390	4.090	2.398	
		CFM	1.766	1.413	842	2.766	2.119	1.260	3.172	2.407	1.411	
Potenza Frigorifera totale – Total cooling capacity		kW	15,50	14,20	10,80	23,30	20,90	16,10	28,10	25,20	18,80	
Potenza Frigorifera sensibile - Sensible cooling		kW	12,00	10,40	7,32	18,40	15,50	10,90	21,60	18,20	12,60	
Portata acqua – Water flow		m3/h	2,67	2,67	2,67	4,00	4,00	4,00	4,87	4,87	4,87	
Perdita di carico – Water pressure drop		kPa	22,8	22,8	22,8	24,0	24,0	24,0	24,3	24,3	24,3	
Potenza Termica - Heating capacity		kW	36,20	31,10	21,00	56,20	47,00	31,60	65,70	54,30	35,80	
Portata acqua - Water flow		m3/h	3,16	3,16	3,16	4,91	4,91	4,91	5,74	5,74	5,74	
Perdita di carico - Water pressure drop		kPa	24,2	24,2	24,2	27,0	27,0	27,0	34,0	34,0	34,0	
Potenza assorbita – Absorbed power		4P	W	---	---	---	1207	799	327	1481	907	409
Corrente assorbita – Current input			A	---	---	---	6,10	4,80	2,60	8,22	5,93	3,50
Potenza assorbita – Absorbed power		6P	W	621	399	252	---	---	---	---	---	
Corrente assorbita – Current input			A	3,00	2,40	1,80	---	---	---	---	---	

		SPEED	803			903			1003			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	---	---	---	9.600	7.200	4.320	10.00	8.100	6.600	
		CFM	---	---	---	5.650	4.238	2.543	5.886	4.767	3.885	
Potenza Frigorifera totale – Total cooling capacity		kW	---	---	---	56,40	42,20	32,10	62,50	56,50	50,50	
Potenza Frigorifera sensibile - Sensible cooling		kW	---	---	---	41,60	30,50	21,60	45,70	39,70	34,40	
Portata acqua – Water flow		m3/h	---	---	---	9,70	9,70	9,70	10,74	10,74	10,74	
Perdita di carico – Water pressure drop		kPa	---	---	---	28,1	28,1	28,1	33,9	33,9	33,9	
Potenza Termica - Heating capacity		kW	---	---	---	122,0	87,90	60,30	137,0	117,0	99,10	
Portata acqua - Water flow		m3/h	---	---	---	10,65	10,65	10,65	11,93	11,93	11,93	
Perdita di carico - Water pressure drop		kPa	---	---	---	27,1	27,1	27,1	33,4	33,4	33,4	
Potenza assorbita – Absorbed power		4P	W	---	---	---	---	---	---	---	---	
Corrente assorbita – Current input			A	---	---	---	---	---	---	---	---	
Potenza assorbita – Absorbed power		6P	W	---	---	---	2178	1417	756	2170	2070	1650
Corrente assorbita – Current input			A	---	---	---	11,0	9,0	7,0	10,5	10,0	8,0

Condizioni nominali di riferimento - Nominal References Conditions						Livello pressione sonora – Sound pressure level	
Raffrescamento	Cooling		Riscaldamento	Heating		Misurata in ambiente chiuso, in camera riverberante, tempo di riverbero 0,50s a 2 metri dall'unità, alla max velocità.	
Acqua ingresso	Water inlet	7°C	Acqua ingresso	Water inlet	70°C		
Acqua uscita	Water outlet	12°C	Acqua uscita	Water outlet	60°C	Measured in a closed room, in reverberation room, time of reverberation 0,50s, from 2 m of the unit, at max speed.	
Aria	Air	27°C	Aria	Air	20°C		
Umidità relativa	Relative humidity	47%					

## CARATTERISTICHE TECNICHE – TECHNICAL FEATURES

### 3 R - ESP 150

		SPEED	103			203			303			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	1.100	900	440	2.250	1.700	970	2.550	2.000	1.150	
		CFM	647	530	259	1.324	1.001	571	1.501	1.177	677	
Potenza Frigorifera totale – Total cooling capacity		kW	6,07	5,56	3,70	11,10	9,90	7,39	13,30	12,00	8,85	
Potenza Frigorifera sensibile - Sensible cooling		kW	4,60	4,04	2,44	8,70	7,30	4,99	10,00	8,63	5,92	
Portata acqua – Water flow		m3/h	1,04	1,04	1,04	1,91	1,91	1,91	2,28	2,28	2,28	
Perdita di carico – Water pressure drop		kPa	16,0	16,0	16,0	24,0	24,0	24,0	24,5	24,5	24,5	
Potenza Termica - Heating capacity		kW	13,80	12,00	6,78	26,10	21,00	14,20	31,00	26,20	17,10	
Portata acqua - Water flow		m3/h	1,20	1,20	1,20	2,28	2,28	2,28	2,70	2,70	2,70	
Perdita di carico - Water pressure drop		kPa	21,5	21,5	21,5	27,0	27,0	27,0	27,0	27,0	27,0	
Potenza assorbita – Absorbed power		4P	W	223	185	79	594	383	133	627	330	129
Corrente assorbita – Current input			A	1,55	1,45	0,80	3,00	2,30	1,10	3,40	2,10	1,10
Potenza assorbita – Absorbed power		6P	W	---	---	---	---	---	---	---	---	
Corrente assorbita – Current input			A	---	---	---	---	---	---	---	---	

		SPEED	403			503			703			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	2.750	2.300	1.400	4.500	3.500	2.040	5.090	3.990	2.298	
		CFM	1.619	1.354	824	2.649	2.060	1.201	2.996	2.348	1.353	
Potenza Frigorifera totale – Total cooling capacity		kW	14,80	13,70	10,60	22,70	20,05	15,50	27,20	24,50	18,10	
Potenza Frigorifera sensibile - Sensible cooling		kW	11,20	10,00	7,17	17,80	15,20	10,50	20,70	17,70	12,10	
Portata acqua – Water flow		m3/h	2,54	2,54	2,54	3,91	3,91	3,91	4,67	4,67	4,67	
Perdita di carico – Water pressure drop		kPa	20,6	20,6	20,6	22,9	22,9	22,9	22,3	22,3	22,3	
Potenza Termica - Heating capacity		kW	33,90	30,00	20,60	54,50	46,00	30,40	62,90	53,10	34,50	
Portata acqua - Water flow		m3/h	2,96	2,96	2,96	4,76	4,76	4,76	5,50	5,50	5,50	
Perdita di carico - Water pressure drop		kPa	21,0	21,0	21,0	25,0	25,0	25,0	31,0	31,0	31,0	
Potenza assorbita – Absorbed power		4P	W	---	---	---	1168	766	302	1410	873	392
Corrente assorbita – Current input			A	---	---	---	5,90	4,60	2,40	7,87	5,70	3,30
Potenza assorbita – Absorbed power		6P	W	600	382	220	---	---	---	---	---	
Corrente assorbita – Current input			A	2,90	2,30	1,75	---	---	---	---	---	

		SPEED	803			903			1003			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	6.700	5.050	3.015	9.000	6.400	4.200	9.000	7.900	6.300	
		CFM	3.943	2.972	1.775	5.297	3.767	2.472	5.297	4.650	3.708	
Potenza Frigorifera totale – Total cooling capacity		kW	33,00	29,50	22,70	42,80	37,20	30,00	58,40	54,80	48,50	
Potenza Frigorifera sensibile - Sensible cooling		kW	26,10	21,80	15,40	33,50	27,20	20,50	42,10	38,60	32,90	
Portata acqua – Water flow		m3/h	5,68	5,68	5,68	7,35	7,35	7,35	10,00	10,00	10,00	
Perdita di carico – Water pressure drop		kPa	27,2	27,2	27,2	23,5	23,5	23,5	29,9	29,9	29,9	
Potenza Termica - Heating capacity		kW	78,30	64,60	44,00	99,80	79,70	58,40	125,0	114,0	95,00	
Portata acqua - Water flow		m3/h	6,84	6,84	6,84	8,73	8,73	8,73	10,97	10,97	10,97	
Perdita di carico - Water pressure drop		kPa	31,8	31,8	31,8	22,8	22,8	22,8	28,6	28,6	28,6	
Potenza assorbita – Absorbed power		4P	W	1855	1090	514	1861	1291	735	---	---	---
Corrente assorbita – Current input			A	8,96	6,60	4,10	9,40	8,20	6,80	---	---	---
Potenza assorbita – Absorbed power		6P	W	---	---	---	---	---	---	1860	1820	1610
Corrente assorbita – Current input			A	---	---	---	---	---	---	9,00	8,80	7,80

Condizioni nominali di riferimento - Nominal References Conditions						Livello pressione sonora – Sound pressure level	
Raffrescamento	Cooling		Riscaldamento	Heating		Misurata in ambiente chiuso, in camera riverberante, tempo di riverbero 0,50s a 2 metri dall'unità, alla max velocità.	
Acqua ingresso	Water inlet	7°C	Acqua ingresso	Water inlet	70°C	Measured in a closed room, in reverberation room, time of reverberation 0,50s, from 2 m of the unit, at max speed.	
Acqua uscita	Water outlet	12°C	Acqua uscita	Water outlet	60°C		
Aria	Air	27°C	Aria	Air	20°C		
Umidità relativa	Relative humidity	47%					



## CARATTERISTICHE TECNICHE – TECHNICAL FEATURES

### 3+2 R - ESP 0

		104			204			304				
		SPEED	1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	1.320	1.040	610	2.420	1.840	1.080	2.840	2.090	1.210	
		CFM	777	612	359	1.424	1.083	636	1.672	1.230	712	
Potenza Frigorifera totale – Total cooling capacity		kW	6,77	6,13	4,65	11,50	8,06	6,38	14,10	12,50	9,29	
Potenza Frigorifera sensibile - Sensible cooling		kW	5,26	4,52	3,15	9,17	6,32	4,54	10,80	9,03	6,22	
Portata acqua – Water flow		m3/h	1,16	1,16	1,16	1,97	1,97	1,97	2,44	2,44	2,44	
Perdita di carico – Water pressure drop		kPa	23,5	23,5	23,5	26,0	26,0	26,0	27,8	27,8	27,8	
Potenza Termica - Heating capacity		kW	12,40	10,80	7,60	21,20	18,20	13,00	26,10	21,80	15,10	
Portata acqua - Water flow		m3/h	1,08	1,08	1,08	1,82	1,82	1,82	2,28	2,28	2,28	
Perdita di carico - Water pressure drop		kPa	17,0	17,0	17,0	17,0	17,0	17,0	19,4	19,4	19,4	
Potenza assorbita – Absorbed power		4P	W	264	201	102	686	461	165	688	453	177
Corrente assorbita – Current input			A	1,77	1,54	1,03	3,46	2,77	1,35	3,73	2,88	1,51
Potenza assorbita – Absorbed power		6P	W	---	---	---	---	---	---	---	---	
Corrente assorbita – Current input			A	---	---	---	---	---	---	---	---	
Livello pressione sonora		4P	dB(A)	48	44	32	52	43	36	50	42	35
Sound pressure level		6P	dB(A)	---	---	---	---	---	---	---	---	
Peso unità incasso – Concealed unit weight			kg	40,2			52,1			62,3		

		404			504			704				
		SPEED	1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	3.250	2.450	1.450	4.830	3.560	2.200	5.500	4.100	2.300	
		CFM	1.913	1.442	853	2.843	2.095	1.295	3.237	2.413	1.354	
Potenza Frigorifera totale – Total cooling capacity		kW	16,30	14,50	11,00	23,60	20,90	16,40	28,50	25,10	18,30	
Potenza Frigorifera sensibile - Sensible cooling		kW	12,70	10,60	7,43	18,70	15,40	11,20	21,90	18,20	12,20	
Portata acqua – Water flow		m3/h	2,79	2,79	2,79	4,06	4,06	4,06	4,89	4,89	4,89	
Perdita di carico – Water pressure drop		kPa	25,0	25,0	25,0	24,8	24,8	24,8	25,2	25,2	25,2	
Potenza Termica - Heating capacity		kW	29,80	25,40	18,00	43,60	36,60	26,80	52,70	44,30	29,90	
Portata acqua - Water flow		m3/h	2,61	2,61	2,61	3,81	3,81	3,81	4,61	4,61	4,61	
Perdita di carico - Water pressure drop		kPa	24,8	24,8	24,8	25,2	25,2	25,2	14,4	14,4	14,4	
Potenza assorbita – Absorbed power		4P	W	---	---	---	1310	862	372	1509	931	397
Corrente assorbita – Current input			A	---	---	---	6,6	5,2	2,9	8,4	6,1	3,3
Potenza assorbita – Absorbed power		6P	W	710	472	254	---	---	---	---	---	
Corrente assorbita – Current input			A	3,43	2,83	2,01	---	---	---	---	---	
Livello pressione sonora		4P	dB(A)	---	---	---	55	46	39	53	45	38
Sound pressure level		6P	dB(A)	46	42	37	---	---	---	---	---	
Peso unità incasso – Concealed unit weight			kg	67,2			89,5			110,8		

		804			904			1004				
		SPEED	1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	---	---	---	---	---	---	10.400	8.200	7.000	
		CFM	---	---	---	---	---	---	6.121	4.826	4.120	
Potenza Frigorifera totale – Total cooling capacity		kW	---	---	---	---	---	---	64,00	57,20	52,50	
Potenza Frigorifera sensibile - Sensible cooling		kW	---	---	---	---	---	---	47,00	40,10	36,00	
Portata acqua – Water flow		m3/h	---	---	---	---	---	---	11,00	11,00	11,00	
Perdita di carico – Water pressure drop		kPa	---	---	---	---	---	---	35,2	35,2	35,2	
Potenza Termica - Heating capacity		kW	---	---	---	---	---	---	95,50	83,60	76,00	
Portata acqua - Water flow		m3/h	---	---	---	---	---	---	8,35	8,35	8,35	
Perdita di carico - Water pressure drop		kPa	---	---	---	---	---	---	10,60	10,60	10,60	
Potenza assorbita – Absorbed power		4P	W	---	---	---	---	---	---	---	---	
Corrente assorbita – Current input			A	---	---	---	---	---	---	---	---	
Potenza assorbita – Absorbed power		6P	W	---	---	---	---	---	2591	2225	1860	
Corrente assorbita – Current input			A	---	---	---	---	---	---	12,50	10,70	9,00
Livello pressione sonora		4P	dB(A)	---	---	---	---	---	---	---	---	
Sound pressure level		6P	dB(A)	---	---	---	---	---	53	51	48	
Peso unità incasso – Concealed unit weight			kg	119,5			203,1			205,1		

## CARATTERISTICHE TECNICHE – TECHNICAL FEATURES

### 3+2 R - ESP 50

		SPEED	104			204			304			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	1.200	1.000	560	2.300	1.700	1.000	2.750	2.040	1.150	
		CFM	706	589	330	1.354	1.001	589	1.619	1.201	677	
Potenza Frigorifera totale – Total cooling capacity		kW	6,40	5,93	4,37	11,20	9,93	7,54	14,00	12,30	8,98	
Potenza Frigorifera sensibile - Sensible cooling		kW	4,91	4,37	2,94	8,84	7,31	5,11	10,70	8,87	5,99	
Portata acqua – Water flow		m3/h	1,10	1,10	1,10	1,93	1,93	1,93	2,41	2,41	2,41	
Perdita di carico – Water pressure drop		kPa	21,1	21,1	21,1	24,9	24,9	24,9	27,0	27,0	27,0	
Potenza Termica - Heating capacity		kW	11,60	10,40	7,12	20,50	17,30	12,20	25,60	21,40	14,60	
Portata acqua - Water flow		m3/h	1,01	1,01	1,01	1,79	1,79	1,79	2,23	2,23	2,23	
Perdita di carico - Water pressure drop		kPa	15,0	15,0	15,0	16,2	16,2	16,2	18,6	18,6	18,6	
Potenza assorbita – Absorbed power		4P	W	240	195	94	652	426	153	666	442	168
Corrente assorbita – Current input			A	1,61	1,49	0,95	2,96	2,55	1,13	3,61	2,81	1,44
Potenza assorbita – Absorbed power		6P	W	---	---	---	---	---	---	---	---	
Corrente assorbita – Current input			A	---	---	---	---	---	---	---	---	

		SPEED	404			504			704			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	3.050	2.400	1.400	4.600	3.500	2.100	5.400	4.000	2.200	
		CFM	1.795	1.413	824	2.707	2.060	1.236	3.178	2.354	1.295	
Potenza Frigorifera totale – Total cooling capacity		kW	15,70	14,20	10,70	23,00	20,60	15,80	28,20	24,80	17,70	
Potenza Frigorifera sensibile - Sensible cooling		kW	12,10	10,40	7,22	18,10	15,20	10,80	21,60	17,90	11,80	
Portata acqua – Water flow		m3/h	2,69	2,69	2,69	3,96	3,96	3,96	4,84	4,84	4,84	
Perdita di carico – Water pressure drop		kPa	23,2	23,2	23,3	23,0	23,0	23,0	24,6	24,6	24,6	
Potenza Termica - Heating capacity		kW	18,60	24,90	17,50	42,20	36,10	25,90	52,10	43,50	28,90	
Portata acqua - Water flow		m3/h	2,50	2,50	2,50	3,69	3,69	3,69	4,53	4,53	4,53	
Perdita di carico - Water pressure drop		kPa	23,0	23,0	23,0	23,8	23,8	23,8	14,1	14,1	14,1	
Potenza assorbita – Absorbed power		4P	W	---	---	---	1247	847	355	1481	908	379
Corrente assorbita – Current input			A	---	---	---	6,30	5,10	2,80	8,20	5,90	3,20
Potenza assorbita – Absorbed power		6P	W	680	450	236	---	---	---	---	---	
Corrente assorbita – Current input			A	3,28	2,70	1,87	---	---	---	---	---	

		SPEED	804			904			1004		
			1	2	3	1	2	3	1	2	3
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	---	---	---	---	---	---	10.000	8.000	6.500
		CFM	---	---	---	---	---	---	5.886	4.709	3.826
Potenza Frigorifera totale – Total cooling capacity		kW	---	---	---	---	---	---	62,50	56,10	52,20
Potenza Frigorifera sensibile - Sensible cooling		kW	---	---	---	---	---	---	45,70	39,60	35,80
Portata acqua – Water flow		m3/h	---	---	---	---	---	---	10,74	10,74	10,74
Perdita di carico – Water pressure drop		kPa	---	---	---	---	---	---	33,0	33,0	33,0
Potenza Termica - Heating capacity		kW	---	---	---	---	---	---	93,20	82,20	75,80
Portata acqua - Water flow		m3/h	---	---	---	---	---	---	8,15	8,15	8,15
Perdita di carico - Water pressure drop		kPa	---	---	---	---	---	---	10,1	10,1	10,1
Potenza assorbita – Absorbed power		4P	W	---	---	---	---	---	---	---	---
Corrente assorbita – Current input			A	---	---	---	---	---	---	---	---
Potenza assorbita – Absorbed power		6P	W	---	---	---	---	---	2491	2170	1727
Corrente assorbita – Current input			A	---	---	---	---	---	---	12,00	10,50

Condizioni nominali di riferimento - Nominal References Conditions						Livello pressione sonora – Sound pressure level	
Raffrescamento	Cooling		Riscaldamento	Heating		Misurata in ambiente chiuso, in camera riverberante, tempo di riverbero 0,50s a 2 metri dall'unità, alla max velocità.	
Acqua ingresso	Water inlet	7°C	Acqua ingresso	Water inlet	70°C		
Acqua uscita	Water outlet	12°C	Acqua uscita	Water outlet	60°C	Measured in a closed room, in reverberation room, time of reverberation 0,50s, from 2 m of the unit, at max speed.	
Aria	Air	27°C	Aria	Air	20°C		
Umidità relativa	Relative humidity	47%					

## CARATTERISTICHE TECNICHE – TECHNICAL FEATURES

### 3+2 R - ESP 100

		SPEED	104			204			304			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	970	910	480	2.250	1.660	980	2.550	2.000	1.100	
		CFM										
Potenza Frigorifera totale – Total cooling capacity		kW	5,63	5,48	3,88	11,10	9,79	7,44	13,40	12,10	8,67	
Potenza Frigorifera sensibile - Sensible cooling		kW	4,19	4,02	2,59	8,71	7,19	5,03	10,10	8,70	5,77	
Portata acqua – Water flow		m3/h	0,96	0,96	0,96	1,90	1,90	1,90	2,30	2,30	2,30	
Perdita di carico – Water pressure drop		kPa	16,4	16,4	16,4	24,0	24,0	24,0	24,5	24,5	24,5	
Potenza Termica - Heating capacity		kW	10,10	9,69	6,30	20,20	17,00	12,10	24,30	21,10	14,10	
Portata acqua - Water flow		m3/h	0,88	0,88	0,88	1,77	1,77	1,77	2,13	2,13	2,13	
Perdita di carico - Water pressure drop		kPa	11,5	11,5	11,5	15,8	15,8	15,8	17,0	17,0	17,0	
Potenza assorbita – Absorbed power		4P	W	194	165	81	638	416	150	617	433	161
Corrente assorbita – Current input			A	1,31	1,26	0,82	3,22	2,49	1,23	3,34	2,75	1,37
Potenza assorbita – Absorbed power		6P	W	---	---	---	---	---	---	---	---	
Corrente assorbita – Current input			A	---	---	---	---	---	---	---	---	

		SPEED	404			504			704			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	2.650	2.350	1.350	4.520	3.450	2.040	5.300	3.900	2.000	
		CFM										
Potenza Frigorifera totale – Total cooling capacity		kW	14,50	13,70	10,30	22,80	20,40	15,60	27,80	24,4	16,6	
Potenza Frigorifera sensibile - Sensible cooling		kW	10,90	10,10	6,96	17,90	15,00	10,50	21,30	17,10	11,10	
Portata acqua – Water flow		m3/h	2,49	2,49	2,49	3,91	3,91	3,91	4,78	4,78	4,78	
Perdita di carico – Water pressure drop		kPa	19,9	19,9	19,9	22,4	22,4	22,4	24,3	24,3	24,3	
Potenza Termica - Heating capacity		kW	26,10	24,40	16,90	41,80	35,80	25,30	51,40	42,80	26,90	
Portata acqua - Water flow		m3/h	2,28	2,28	2,28	3,65	3,65	3,65	4,49	4,49	4,49	
Perdita di carico - Water pressure drop		kPa	19,4	19,4	19,4	23,4	23,4	23,4	21,1	21,1	21,1	
Potenza assorbita – Absorbed power		4P	W	---	---	---	1225	835	345	1450	885	344
Corrente assorbita – Current input			A	---	---	---	6,10	5,00	2,70	8,07	5,78	2,94
Potenza assorbita – Absorbed power		6P	W	641	440	227	---	---	---	---	---	
Corrente assorbita – Current input			A	3,10	2,64	1,80	---	---	---	---	---	

		SPEED	804			904			1004			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	6.700	5.025	3.015	9.500	6.500	4.000	9.200	7.800	6.100	
		CFM										
Potenza Frigorifera totale – Total cooling capacity		kW	33,00	29,50	22,70	56,10	46,50	34,30	59,20	54,70	47,70	
Potenza Frigorifera sensibile - Sensible cooling		kW	26,10	21,80	15,40	41,20	32,10	22,50	42,80	38,30	32,30	
Portata acqua – Water flow		m3/h	5,68	5,68	5,68	9,64	9,64	9,64	10,18	10,18	10,18	
Perdita di carico – Water pressure drop		kPa	27,2	27,2	27,2	30,2	30,2	30,2	29,0	29,0	29,0	
Potenza Termica - Heating capacity		kW	59,90	50,90	36,60	78,90	63,70	46,60	88,30	80,40	69,10	
Portata acqua - Water flow		m3/h	5,23	5,23	5,23	6,89	6,89	6,89	7,72	7,72	7,72	
Perdita di carico - Water pressure drop		kPa	18,3	18,3	18,3	7,4	7,4	7,4	9,1	9,1	9,1	
Potenza assorbita – Absorbed power		4P	W	1855	1090	514	---	---	---	---	---	
Corrente assorbita – Current input			A	8,96	6,60	4,10	---	---	---	---	---	
Potenza assorbita – Absorbed power		6P	W	---	---	---	2155	1279	700	2291	2115	1620
Corrente assorbita – Current input			A	---	---	---	10,40	8,10	6,50	11,00	10,20	7,80

Condizioni nominali di riferimento - Nominal References Conditions						Livello pressione sonora – Sound pressure level	
Raffrescamento	Cooling		Riscaldamento	Heating		Misurata in ambiente chiuso, in camera riverberante, tempo di riverbero 0,50s a 2 metri dall'unità, alla max velocità.  Measured in a closed room, in reverberation room, time of reverberation 0,50s, from 2 m of the unit, at max speed.	
Acqua ingresso	Water inlet	7°C	Acqua ingresso	Water inlet	70°C		
Acqua uscita	Water outlet	12°C	Acqua uscita	Water outlet	60°C		
Aria	Air	27°C	Aria	Air	20°C		
Umidità relativa	Relative humidity	47%					

## CARATTERISTICHE TECNICHE – TECHNICAL FEATURES

### 3+2 R - ESP 150

		SPEED	104			204			304			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	820	780	420	2.180	1.500	950	2.400	1.900	1.050	
		CFM	483	459	247	1.283	883	559	1.413	1.118	618	
Potenza Frigorifera totale – Total cooling capacity		kW	5,06	4,95	3,50	10,90	9,30	7,35	12,90	11,70	8,35	
Potenza Frigorifera sensibile - Sensible cooling		kW	3,69	3,57	2,31	8,51	6,70	5,93	9,70	8,37	5,50	
Portata acqua – Water flow		m3/h	0,87	0,87	0,87	1,87	1,87	1,87	2,22	2,22	2,22	
Perdita di carico – Water pressure drop		kPa	13,2	13,2	13,2	23,0	23,0	23,0	22,8	22,8	22,8	
Potenza Termica - Heating capacity		kW	8,94	8,67	5,66	19,80	16,00	11,80	23,40	20,30	13,60	
Portata acqua - Water flow		m3/h	0,78	0,78	0,78	1,73	1,73	1,73	2,04	2,04	2,04	
Perdita di carico - Water pressure drop		kPa	9,2	9,2	9,2	15,2	15,2	15,2	15,8	15,8	15,8	
Potenza assorbita – Absorbed power		4P	W	164	130	71	618	376	145	580	411	153
Corrente assorbita – Current input			A	1,11	0,99	0,71	3,12	2,25	1,19	3,15	2,61	1,31
Potenza assorbita – Absorbed power		6P	W	---	---	---	---	---	---	---	---	
Corrente assorbita – Current input			A	---	---	---	---	---	---	---	---	

		SPEED	404			504			704			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	2.000	1.800	1.300	4.400	3.400	2.000	4.700	3.700	1.700	
		CFM	1.177	1.059	765	2.590	2.001	1.177	2.766	2.178	1.001	
Potenza Frigorifera totale – Total cooling capacity		kW	12,20	11,60	9,76	22,50	20,20	15,30	25,90	23,30	14,70	
Potenza Frigorifera sensibile - Sensible cooling		kW	8,88	8,29	6,64	17,50	14,90	10,40	19,60	16,8	9,61	
Portata acqua – Water flow		m3/h	2,09	2,09	2,09	3,86	3,86	3,86	4,46	4,46	4,46	
Perdita di carico – Water pressure drop		kPa	14,0	14,0	14,0	21,8	21,8	21,8	21,1	21,1	21,1	
Potenza Termica - Heating capacity		kW	21,50	20,20	16,20	41,10	35,40	24,90	47,50	41,00	23,60	
Portata acqua - Water flow		m3/h	1,88	1,88	1,88	3,59	3,59	3,59	4,15	4,15	4,15	
Perdita di carico - Water pressure drop		kPa	13,5	13,5	13,5	22,6	22,6	22,6	11,9	11,9	11,9	
Potenza assorbita – Absorbed power		4P	W	---	---	---	1187	822	338	1280	839	292
Corrente assorbita – Current input			A	---	---	---	5,90	4,90	2,60	7,11	5,50	2,50
Potenza assorbita – Absorbed power		6P	W	483	337	218	---	---	---	---	---	
Corrente assorbita – Current input			A	2,33	1,82	1,73	---	---	---	---	---	

		SPEED	804			904			1004			
			1	2	3	1	2	3	1	2	3	
<b>PORTATA ARIA – AIR FLOW</b>		m3/h	6.400	4.800	2.800	8.600	6.100	3.600	8.000	7.600	6.000	
		CFM	3.767	2.825	1.648	5.062	3.590	2.119	4.709	4.473	3.531	
Potenza Frigorifera totale – Total cooling capacity		kW	32,00	28,50	21,50	52,70	44,30	31,60	54,10	52,70	46,40	
Potenza Frigorifera sensibile - Sensible cooling		kW	25,10	20,90	14,50	38,30	30,40	20,60	38,40	37,10	31,50	
Portata acqua – Water flow		m3/h	5,50	5,50	5,50	9,06	9,06	9,06	9,29	9,29	9,29	
Perdita di carico – Water pressure drop		kPa	25,5	25,5	25,5	26,0	26,0	26,0	23,8	23,8	23,8	
Potenza Termica - Heating capacity		kW	58,20	49,30	34,60	74,10	60,80	43,10	80,50	78,20	67,70	
Portata acqua - Water flow		m3/h	5,08	5,08	5,08	6,47	6,47	6,47	7,04	7,04	7,04	
Perdita di carico - Water pressure drop		kPa	17,3	17,3	17,3	6,6	6,6	6,6	7,7	7,7	7,7	
Potenza assorbita – Absorbed power		4P	W	1770	1040	477	---	---	---	---	---	
Corrente assorbita – Current input			A	8,50	6,20	3,80	---	---	---	---	---	
Potenza assorbita – Absorbed power		6P	W	---	---	---	1950	1200	630	1992	2060	1593
Corrente assorbita – Current input			A	---	---	---	9,42	7,62	5,80	8,60	9,00	7,70

Condizioni nominali di riferimento - Nominal References Conditions						Livello pressione sonora – Sound pressure level	
Raffrescamento	Cooling		Riscaldamento	Heating		Misurata in ambiente chiuso, in camera riverberante, tempo di riverbero 0,50s a 2 metri dall'unità, alla max velocità.	
Acqua ingresso	Water inlet	7°C	Acqua ingresso	Water inlet	70°C		
Acqua uscita	Water outlet	12°C	Acqua uscita	Water outlet	60°C	Measured in a closed room, in reverberation room, time of reverberation 0,50s, from 2 m of the unit, at max speed.	
Aria	Air	27°C	Aria	Air	20°C		
Umidità relativa	Relative humidity	47%					

I dati tecnici presenti nel bollettino tecnico non sono impegnativi. La FROST ITALY S.r.l. si riserva la facoltà di apportare in qualsiasi momento tutte le modifiche ritenute necessarie al miglioramento del prodotto.

The technical present data in the technical bulletin are not binding. The FROST ITALY S.r.l. reserves the faculty of make in any moment all the modifications thought necessary to the improvement of the product.