

SCWY



Refrigeratori d'acqua acqua/acqua
Pompe di calore acqua/acqua reversibili
da 50 kW a 840 kW

*Water cooled water chillers
Reversible heat pumps water cooled
from 50 kW to 840 kW*



R 410A

*Compressori Scroll
Scroll Compressors*

Serie:	SCWY	Catalogo:	DIE58
Series:		Leaflet:	
Emissione:	06/19	Sostituisce:	06/17
Issue:		Supersedes:	

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Codice d'identificazione									
SCWY				P - 121 - PAC1					
1	2	3	4	5	6	7	8	9	10
1		S		Serie small > 45 kW					
2		C		Unità Chiller					
3		W		Condensazione ad acqua					
4		Y		Refrigerante R 410A					
5		P		Scambiatori a piastre					
		F		Scambiatori a fascio tubiero					
6		-		Compressori Scroll					
7		12		Coefficiente di potenza					
8		1		N° circuiti frigoriferi					
9		-		Versione solo freddo					
		H		Versione in pompa di calore					
		W		Versione acqua di pozzo					
10		PAC1		Accumulo + pompa					
		P1		N°1 pompa					
		P2		N°2 pompe					
		DS		Recupero calore parziale					
		RCS		Recupero di calore in serie (70-90%)					
		RCP		Recupero di calore in parallelo (100%)					
		LN		Bassa emissione sonora					
		VLN		Ridottissima emissione sonora					

Identification code									
SCWY				P - 121 - PAC1					
1	2	3	4	5	6	7	8	9	10
1		S		Small series > 45 kW					
2		C		Chiller unit					
3		W		Water Chiller					
4		Y		Refrigerant R 410A					
5		P		Exchangers plate to plate					
		F		Exchangers shell and tube					
6		-		Scroll compressors					
7		12		Capacity factors					
8		1		Number of circuits					
9		-		Cooling mode					
		H		Heat pump mode					
		W		Well water version					
10		PAC1		Storage tank + Pump					
		P1		1 pump					
		P2		2 pumps					
		DS		Partial Heat recovery					
		RCS		Heat recovery fitted in series (70-90%)					
		RCP		Heat recovery fitted in parallel (100%)					
		LN		Low noise					
		VLN		Very low noise					

SCWY - Refrigeratori acqua/acqua compressori scroll SCWY...H - Pompe di calore acqua/acqua reversibili

Caratteristiche generali

STRUTTURA

Autoportante, in lamiera zincata verniciata con polveri poliestere. Nella versione con fascio tubiero non sono presenti pannelli di chiusura.

COMPRESSORI

Ermetici di tipo «**scroll**», montati su supporti elastici, completi di protezione integrale termoamperometrica e resistenza carter.

EVAPORATORE

SCWY/P: versione con evaporatore a piastre saldobrasate.

SCWY/F: versione con evaporatore a fascio tubiero.

In entrambi i casi si tratta di un evaporatore con uno o due circuiti separati lato refrigerante ed un unico circuito lato acqua. L'isolamento termico dell'evaporatore è ottenuto con schiuma poliuretanica a celle chiuse. A protezione dell'evaporatore, sul circuito idraulico è presente un *pressostato differenziale* che inibisce il funzionamento dei compressori in assenza di circolazione d'acqua.

CONDENSATORI

Uno o due secondo il modello.

SCWY/P: condensatori a piastre saldobrasate.

SCWY/F: condensatori a fascio tubiero.

CIRCUITO FRIGORIFERO

Ciascuna unità è costituita da uno o due distinti circuiti frigoriferi, ognuno dei quali include: filtro deidratatore, spia di passaggio refrigerante con indicatore di umidità, valvola di espansione elettronica, valvole schrader di servizio. A protezione sono presenti su tutte le unità: pressostato di alta a riarmo manuale, di bassa a riarmo automatico e termostato antigelo. Nelle versioni in pompa di calore il circuito frigorifero include anche: valvola di inversione ciclo 4 vie, valvole di ritegno, valvola solenoide e ricevitore di liquido.

QUADRO ELETTRICO

Include: interruttore generale con blocco porta, fusibili di protezione, teleruttori e relé termici per i compressori, trasformatore per i circuiti ausiliari. Microprocessore per la gestione in automatico dell'unità e la visualizzazione dello stato di funzionamento e/o di blocco della stessa.

Versioni disponibili

DS

Recupero di calore parziale. Comprende un desurriscaldatore, isolato termicamente, posto in serie tra compressore e condensatore.

RCS

Recupero del calore di condensazione dal 70% al 90%. Comprende uno scambiatore, isolato termicamente, posto in serie tra compressore e condensatore.

RCP

Recupero del 100% del calore di condensazione. Comprende uno scambiatore isolato termicamente, posto in parallelo al condensatore; inoltre: valvole solenoidi di intercettazione e scambio.

P1-P2

Versione con kit idraulico. Include: una elettropompa o due (una di riserva all'altra), flussostato, valvola di sicurezza, valvola di sfogo, valvola di taratura, relativo circuito idraulico opportunamente coibentato e nel caso di doppia pompa, di valvole di ritegno. Inoltre è compreso un circuito elettrico di potenza e comando dedicato. Come optional sono previste pompe idrauliche con prevalenza maggiorata.

PAC1-PAC2

Versione con kit idraulico e serbatoio inerziale, disponibile solo nella versione con evaporatore a fascio tubiero. Include, oltre a quanto previsto per la versione P1-P2, anche un serbatoio inerziale/accumulo posto in ingresso impianto acqua.

LN

Versione insonorizzata, a bassa emissione sonora ottenuta a mezzo di una speciale cuffia insonorizzante posta sui compressori.

VLN

Versione a bassissima emissione sonora. Oltre ad adottare gli accorgimenti costruttivi della versione LN, le pareti interne del vano compressori vengono insonorizzate con un materassino isolante ad alta densità.

Accessori disponibili

- Condensatori di rifasamento
- Cavi elettrici numerati
- Valvole pressostatiche
- Flussostato non montato
(montato di serie solo nelle versioni P1-P2 e PAC1-PAC2)
- Pompe idrauliche maggiorate
- Rubinetti mandata compressore e linea del liquido
- Manometri
- Scheda orologio programmatore
- Pannello comando remoto
- Scheda seriale RS485, Lon Work, BACNET
- Resistenza elettrica evaporatore
- Resistenza elettrica per versione PAC1-PAC2
- Antivibranti in gomma
- Antivibranti a molla
- Imballo in gabbia o cassa

SCWY - Chillers water/water with scroll compressors SCWY...H - Reversible heat pumps water cooled

General features

FRAME

Self-supporting, galvanized steel frame coated with polyester powder paint. Open frame version in case of shell&tube exchangers.

COMPRESSORS

Hermetic «scroll» type with crankcase heater and klixon for overload protection. The compressors are mounted on rubber shock absorbers.

EVAPORATOR

SCWY/P: braze welded plate to plate type.

SCWY/F: Shell and tube type.

Both series are with one or two independent refrigerant circuits and one water circuit. The insulation is with a flexible closed-cell lining. It's including the differential pressure switch which will stop the unit in case there is no water circulation.

CONDENSERS

One or two depending on the model.

SCWY/P: plate to plate condensers.

SCWY/F: shell and tube condensers.

REFRIGERANT CIRCUIT

Each unit is supplied with one or two independent refrigerant circuits, each one include: filter dryer, sight glass, electronic expansion valve, service valve.

To protect the refrigerant circuit the following devices are fitted: manual reset high pressure switch, automatic reset low pressure switch, antifreeze thermostat. The heat pump units version contain, in addition: safety thermostat on compressor discharge line, 4-ways valve, check valve, solenoid valve, liquid receiver.

ELECTRICAL BOARD

It Includes: main circuit automatic breaker switch with door locking device, main fuses, compressor contactor, auxiliary circuits transformer. Microprocessor to automatically control the unit with a display to indicate the functions as well as alarm conditions

Versions

DS

Partial condensing heat recovery. Includes a desuperheater insulated and installed in series between the compressor and the condenser.

RCS

Condensing heat recovery from 70% to 90%. Includes a heat exchanger insulated and mounted in series between compressor and condenser.

RCP

100% condensing heat recovery. Includes: a heat exchanger insulated and mounted in parallel to the condenser and the relevant solenoid valves

P1-P2

Hydraulic kit version, It includes: one or two pumps (one as stand-by), flowswitch, safety valve, air purger shut-off valve, hydraulic circuit insulated, relevant electrical circuit. In case of stand-by pump a check valves is mounted. As option, pumps with higher ESP are available.

PAC1-PAC2

Version with hydraulic kit and storage tank, available only with shell&tube evaporator type. It includes, further to what included in the P1-P2 version, a storage tank installed on the discharge line.

LN

Low noise version equipped with soundproof material covering the compressors.

VLN

Very low noise version. In addition to the LN devices are equipped with insulated panels on the compressor box.

Options

- Power correction condenser
- Numbered elect. wires
- Condensing control valve
- Flowswitch not mounted
(standard mounted on P1-P2 and PAC1-PAC2 versions)
- Water pumps with higher ESP
- Compressor discharge and liquid line shut-off valves
- HP/LP Gauges
- Programmer clock-card
- Remote control panel
- Serial card: RS485, Lon Work, BACNET
- Evaporator electric heater
- Electric heater for PAC1-PAC2 version
- Rubber antivibrators
- Spring antivibrators
- Wooden crate packing

Tabella tecnica - *Technical data* SCWY-P scambiatori a piastre - *plate to plate exchangers*

GRANDEZZA UNITÀ - SIZE		61	71	81	91	101	121
Funzionamento con acqua di pozzo / City water 15-30 °C							
Potenzialità frigorifera - <i>Cooling capacity</i>	(1) kW	60	70	79	88	104	122
Potenza assorbita - <i>Abs. power</i>	(2) kW	11	12,9	14.4	16.9	19.6	22.2
EER	-	5.45	5.41	5.45	5.20	5.31	5.50
Evaporatore / Evaporator							
Portata acqua - <i>Water flow rate</i>	m³/h	10.3	12	13.5	15.1	17.9	21
Perdita carico - <i>Pressure drop</i>	kPa	46	44	40	42	46	63
Contenuto acqua - <i>Water volume</i>	l	4.0	4.0	5.0	5.0	7.9	7.9
Attacchi idraulici - <i>Water connections</i>	Ø	2"	2"	2"	2"	2"	2"
Condensatore / Condenser							
Portata acqua - <i>Water flow rate</i>	m³/h	4.1	4.7	5.3	6	7.1	8.2
Perdita carico - <i>Pressure drop</i>	kPa	11	11	12	12	6	15
Contenuto acqua - <i>Water volume</i>	l	2.8	2.8	3.7	3.7	4.9	4.9
Attacchi idraulici - <i>Water connections</i>	Ø	2"	2"	2"	2"	2"	2"
Funzionamento con acqua di torre / Tower water 30-35 °C							
Potenzialità frigorifera - <i>Cooling capacity</i>	(1) kW	56	65	73	82	98	114
Potenza assorbita - <i>Abs. power</i>	(2) kW	12.4	14.7	16.3	19	21.9	24.8
EER	-	4.42	4.43	4.50	4.32	4.45	4.60
Evaporatore / Evaporator							
Portata acqua - <i>Water flow rate</i>	m³/h	9.6	11.2	12.6	14.1	16.8	19.6
Perdita carico - <i>Pressure drop</i>	kPa	40	39	35	36	40	55
Contenuto acqua - <i>Water volume</i>	l	4.0	4.0	5.0	5.0	7.9	7.9
Attacchi idraulici - <i>Water connections</i>	Ø	2"	2"	2"	2"	2"	2"
Condensatore / Condenser							
Portata acqua - <i>Water flow rate</i>	m³/h	11.8	13.7	15.4	17.4	20.5	23.9
Perdita carico - <i>Pressure drop</i>	kPa	11	12	12	12	6	15
Contenuto acqua - <i>Water volume</i>	l	5.8	5.8	11	11	14	14
Attacchi idraulici - <i>Water connections</i>	Ø	2"	2"	2"	2"	2"	2"
Funzionamento / Dry Cooler water/glycol 30% 40-45 °C							
Potenzialità frigorifera - <i>Cooling capacity</i>	(1) kW	49	57	64	72	86	100
Potenza assorbita - <i>Abs. power</i>	(2) kW	15.4	18.4	20.2	23.2	26.6	30.3
EER	-	3.19	3.07	3.16	3.09	3.21	3.30
Evaporatore / Evaporator							
Portata acqua - <i>Water flow rate</i>	m³/h	8.4	9.7	11	12.3	14.7	17.2
Perdita carico - <i>Pressure drop</i>	kPa	31	29	27	28	32	44
Contenuto acqua - <i>Water volume</i>	l	4.0	4.0	5.0	5.0	7.9	7.9
Attacchi idraulici - <i>Water connections</i>	Ø	2"	2"	2"	2"	2"	2"
Condensatore / Condenser							
Portata acqua - <i>Water flow rate</i>	m³/h	11.9	13.9	15.6	17.6	20.8	24.2
Perdita carico - <i>Pressure drop</i>	kPa	30	40	19	19	21	27
Contenuto acqua - <i>Water volume</i>	l	5.8	5.8	11	11	14	14
Attacchi idraulici - <i>Water connections</i>	Ø	2"	2"	2"	2"	2"	2"
Compressore / Compressor							
Quantità - <i>Quantity</i>	n°	2					
Gradini di parzializzazione - <i>Capacity steps</i>	n°	2					
Circuiti frigoriferi - <i>Refrigerant circuit</i>	n°	1					
Refrigerante - <i>Refrigerant</i>	-	R410A					
Dati elettrici unità / Unit electric data		(3)					
Max corrente assorbita in funzionamento - <i>Max abs. current</i>	A	45	47	53	65	71	77
Max corrente spunto - <i>Max LRC</i>	A	135	143	146	174	211	262
Alimentazione elettrica - <i>Voltage supply</i>	V/Hz	400/3/50					
Pressione sonora / Sound pressure @ 1mt		(3)					
Versione STD / <i>Version STD</i>	dB(A)	62	61	63	63	64	70
Versione LN / <i>Version LN</i>	dB(A)	55	54	55	56	57	64
Versione VLN / <i>Version VLN</i>	dB(A)	52	51	52	53	54	61

Note: 1) Raffreddamento: evaporatore: acqua da 12 °C a 7 °C

Notes: 1) Cooling mode: evaporator water temperature 12/7 °C

2) Solo compressori escluse pompe idrauliche

2) Compressors only, no water pump(s)

3) Escluse pompe idrauliche

3) Without water pump(s)

Tabella tecnica - Technical data SCWY-P scambiatori a piastre - plate to plate exchangers

GRANDEZZA UNITÁ - SIZE		131	141	151	161	191	222
Funzionamento con acqua di pozzo / City water 15-30 °C							
Potenzialità frigorifera - Cooling capacity (1)	kW	138	156	175	197	227	247
Potenza assorbita - Abs. power (2)	kW	25.4	28.5	31.2	35.2	39.5	42.9
EER	-	5.43	5.47	5.61	5.60	5.75	5.76
Evaporatore / Evaporator							
Portata acqua - Water flow rate	m³/h	23.7	26.7	30	33.9	39	42.4
Perdita carico - Pressure drop	kPa	41	57	51	40	51	54
Contenuto acqua - Water volume	l	11	11	11	14	14	14
Attacchi idraulici - Water connections	Ø	2"	2"	2"	2"	2"	2"
Condensatore / Condenser							
Portata acqua - Water flow rate	m³/h	9.4	10.6	11.8	13.3	15.3	16.6
Perdita carico - Pressure drop	kPa	6	8	8	7	10	9
Contenuto acqua - Water volume	l	11	11	11	14	14	14
Attacchi idraulici - Water connections	Ø	2"	2"	2"	2"	2"	2"
Funzionamento con acqua di torre / Tower water 30-35 °C							
Potenzialità frigorifera - Cooling capacity (1)	kW	129	146	164	184	213	233
Potenza assorbita - Abs. power (2)	kW	28.4	31.9	34.8	39.4	44.1	47.6
EER	-	4.54	4.58	4.71	4.67	4.83	4.89
Evaporatore / Evaporator							
Portata acqua - Water flow rate	m³/h	22.1	25.1	28.2	31.7	36.6	40.1
Perdita carico - Pressure drop	kPa	36	46	45	35	45	48
Contenuto acqua - Water volume	l	11	11	11	14	14	14
Attacchi idraulici - Water connections	Ø	2"	2"	2"	2"	2"	2"
Condensatore / Condenser							
Portata acqua - Water flow rate	m³/h	27	30.5	34.2	38.5	44.1	48.3
Perdita carico - Pressure drop	kPa	23	29	30	26	35	39
Contenuto acqua - Water volume	l	17	17	17	26	26	28
Attacchi idraulici - Water connections	Ø	2"	2"	2"	2"	2"	2"
Funzionamento/glicole / Dry Cooler water/glycol 30% 40-45 °C							
Potenzialità frigorifera - Cooling capacity (1)	kW	113	128	145	162	186	206
Potenza assorbita - Abs. power (2)	kW	34.8	38.9	42.5	48	54	58.2
EER	-	3.25	3.29	3.41	3.38	3.44	3.54
Evaporatore / Evaporator							
Portata acqua - Water flow rate	m³/h	19.4	22	24.9	27.8	32	35.4
Perdita carico - Pressure drop	kPa	28	36	38	27	35	38
Contenuto acqua - Water volume	l	11	11	11	14	14	14
Attacchi idraulici - Water connections	Ø	2"	2"	2"	2"	2"	2"
Condensatore / Condenser							
Portata acqua - Water flow rate	m³/h	27.4	30.9	34.6	38.8	44.5	48.9
Perdita carico - Pressure drop	kPa	25	39	43	40	48	54
Contenuto acqua - Water volume	l	17	17	17	26	26	28
Attacchi idraulici - Water connections	Ø	2"	2"	2"	2"	2"	2"
Compressore / Compressor							
Quantità - Quantity	n°	2					4
Gradini di parzializzazione - Capacity steps	n°	2					4
Circuiti frigoriferi - Refrigerant circuit	n°	1					2
Refrigerante - Refrigerant	-	R410A					
Dati elettrici unità / Unit electric data (3)							
Max corrente assorbita in funzionamento - Max abs. current	A	83	91	99	116	133	151
Max corrente spunto - Max LRC	A	268	315	323	361	378	336
Alimentazione elettrica - Voltage supply	V/f/Hz	400/3/50					
Pressione sonora / Sound pressure @ 1mt (3)							
Versione STD / Version STD	dB(A)	70	69	72	72	72	73
Versione LN / Version LN	dB(A)	64	63	67	66	65	67
Versione VLN / Version VLN	dB(A)	61	60	64	63	62	64

Note: 1) Raffreddamento: evaporatore: acqua da 12 °C a 7 °C
Notes: 1) Cooling mode: evaporator water temperature 12/7 °C

2) Solo compressori escluse pompe idrauliche
 2) Compressors only, no water pump(s)

3) Escluse pompe idrauliche
 3) Without water pump(s)

Tabella tecnica - *Technical data* SCWY-P scambiatori a piastre - *plate to plate exchangers*

GRANDEZZA UNITÀ - SIZE		242	282	312	342	382	442	482
Funzionamento con acqua di pozzo / City water 15-30 °C								
Potenzialità frigorifera - <i>Cooling capacity</i>	(1) kW	278	310	339	393	451	518	576
Potenza assorbita - <i>Abs. power</i>	(2) kW	48.3	54.6	59.9	68.4	77.7	86.4	99.1
EER	-	5.76	5.68	5.66	5.75	5.80	6.00	5.81
Evaporatore / Evaporator								
Portata acqua - <i>Water flow rate</i>	m³/h	47.7	53.4	58.2	67.7	77.5	89	99.1
Perdita carico - <i>Pressure drop</i>	kPa	68	64	78	48	53	70	72
Contenuto acqua - <i>Water volume</i>	l	14	17	17	35	38	38	43
Attacchi idraulici - <i>Water connections</i>	Ø	2"	2"	2"	3"	3"	3"	3"
Condensatore / Condenser								
Portata acqua - <i>Water flow rate</i>	m³/h	18.7	20.9	22.8	13.3+13.3	15.2+15.2	17.3+17.3	19.4+19.4
Perdita carico - <i>Pressure drop</i>	kPa	11	11	12	6+6	8+8	9+9	12+12
Contenuto acqua - <i>Water volume</i>	l	14	17	17	21+21	23+23	32+32	32+32
Attacchi idraulici - <i>Water connections</i>	Ø	2"	2"	2"	2"	2"	2"	2"
Funzionamento con acqua di torre / Tower water 30-35 °C								
Potenzialità frigorifera - <i>Cooling capacity</i>	(1) kW	262	293	319	371	426	489	544
Potenza assorbita - <i>Abs. power</i>	(2) kW	53.3	60.4	66.5	75.9	86	95.7	109
EER	-	4.92	4.85	4.80	4.89	4.95	5.10	4.99
Evaporatore / Evaporator								
Portata acqua - <i>Water flow rate</i>	m³/h	45	50.3	54.8	63.8	73.3	84	93.6
Perdita carico - <i>Pressure drop</i>	kPa	60	57	69	43	47	62	64
Contenuto acqua - <i>Water volume</i>	l	14	17	17	35	38	38	43
Attacchi idraulici - <i>Water connections</i>	Ø	2"	2"	2"	3"	3"	3"	3"
Condensatore / Condenser								
Portata acqua - <i>Water flow rate</i>	m³/h	54.2	60.7	66.2	38.5+38.5	44.1+44.1	50+50	56+56
Perdita carico - <i>Pressure drop</i>	kPa	5	59	63	34+34	40+40	38+38	48+48
Contenuto acqua - <i>Water volume</i>	l	28	29	32	21+21	23+23	32+32	32+32
Attacchi idraulici - <i>Water connections</i>	Ø	2"	2"	2"	2"+2"	2"+2"	2"+2"	2"+2"
Funzionamento / Dry Cooler water/glycol 30% 40-45 °C								
Potenzialità frigorifera - <i>Cooling capacity</i>	(1) kW	231	257	279	327	376	433	481
Potenza assorbita - <i>Abs. power</i>	(2) kW	65.3	74	81.1	92.6	105	116	131
EER	-	3.54	3.47	3.44	3.53	3.58	3.73	3.67
Evaporatore / Evaporator								
Portata acqua - <i>Water flow rate</i>	m³/h	39.7	44.3	48.1	56.2	64.6	74.5	82.7
Perdita carico - <i>Pressure drop</i>	kPa	47	44	53	33	37	49	51
Contenuto acqua - <i>Water volume</i>	l	14	17	17	35	38	38	43
Attacchi idraulici - <i>Water connections</i>	Ø	2"	2"	2"	3"	3"	3"	3"
Condensatore / Condenser								
Portata acqua - <i>Water flow rate</i>	m³/h	54.8	61.4	66.8	38.9+38.9	44.6+44.6	51+51	56.5+56.5
Perdita carico - <i>Pressure drop</i>	kPa	56	67	72	39+39	46+46	43+43	50+50
Contenuto acqua - <i>Water volume</i>	l	28	29	32	21+21	23+23	32+32	32+32
Attacchi idraulici - <i>Water connections</i>	Ø	2"	2"	2"	2"+2"	2"+2"	2"+2"	2"+2"
Compressore / Compressor								
Quantità - <i>Quantity</i>	n°	4						
Gradini di parzializzazione - <i>Capacity steps</i>	n°	4						
Circuiti frigoriferi - <i>Refrigerant circuit</i>	n°	2						
Refrigerante - <i>Refrigerant</i>	-	R410A						
Dati elettrici unità / Unit electric data								
Max corrente assorbita in funzionamento - <i>Max abs. current</i>	A	163	179	195	229	263	297	331
Max corrente spunto - <i>Max LRC</i>	A	348	403	419	479	508	623	657
Alimentazione elettrica - <i>Voltage supply</i>	V/f/Hz	400/3/50						
Pressione sonora / Sound pressure @ 1m								
Versione STD / <i>Version STD</i>	dB(A)	73	72	75	75	75	79	81
Versione LN / <i>Version LN</i>	dB(A)	67	66	70	69	68	72	74
Versione VLN / <i>Version VLN</i>	dB(A)	64	63	67	66	65	69	71

Note: 1) Raffreddamento: evaporatore: acqua da 12 °C a 7 °C
Notes: 1) Cooling mode: evaporator water temperature 12/7 °C

2) Solo compressori escluse pompe idrauliche
 2) Compressors only, no water pump(s)

3) Escluse pompe idrauliche
 3) Without water pump(s)

Tabella tecnica - Technical data SCWY-P scambiatori a piastre - plate to plate exchangers

GRANDEZZA UNITÀ - SIZE		522	582	642	682
Funzionamento con acqua di pozzo / City water 15-30 °C		Modelli disponibili con acqua di torre o dry-cooler . Vedere unità con scambiatori a fascio tubiero pag.13 / Models available with cooling tower water or dry-cooler water source. See shell&tube version on pg 13			
Potenzialità frigorifera - Cooling capacity	(1) kW				
Potenza assorbita - Abs. power	(2) kW				
EER	-				
Evaporatore / Evaporator					
Portata acqua - Water flow rate	m³/h	-	-	-	-
Perdita carico - Pressure drop	kPa	-	-	-	-
Contenuto acqua - Water volume	l	-	-	-	-
Attacchi idraulici - Water connections	Ø	-	-	-	-
Condensatore / Condenser					
Portata acqua - Water flow rate	m³/h	-	-	-	-
Perdita carico - Pressure drop	kPa	-	-	-	-
Contenuto acqua - Water volume	l	-	-	-	-
Attacchi idraulici - Water connections	Ø	-	-	-	-
Funzionamento con acqua di torre / Tower water 30-35 °C					
Potenzialità frigorifera - Cooling capacity	(1) kW	586	666	719	784
Potenza assorbita - Abs. power	(2) kW	120	141	154	168
EER	-	4.88	4.72	4.67	4.67
Evaporatore / Evaporator					
Portata acqua - Water flow rate	m³/h	101	115	124	135
Perdita carico - Pressure drop	kPa	40	46	50	59
Contenuto acqua - Water volume	l	38	53	55	58
Attacchi idraulici - Water connections	Ø	3"	3"	3"	3"
Condensatore / Condenser					
Portata acqua - Water flow rate	m³/h	60.5+60.5	69.5+69.5	75+75	82+82
Perdita carico - Pressure drop	kPa	19+19	25+25	28+28	26+26
Contenuto acqua - Water volume	l	28	28	28	32
Attacchi idraulici - Water connections	Ø	3"	3"	3"	3"
Funzionamento / Dry Cooler water/glycol 30% 40-45 °C					
Potenzialità frigorifera - Cooling capacity	(1) kW	516	574	625	690
Potenza assorbita - Abs. power	(2) kW	147	172	186	202
EER	-	3.51	3.34	3.36	3.42
Evaporatore / Evaporator					
Portata acqua - Water flow rate	m³/h	88.7	98.7	107	119
Perdita carico - Pressure drop	kPa	58	50	57	66
Contenuto acqua - Water volume	l	38	53	55	58
Attacchi idraulici - Water connections	Ø	3"	3"	3"	3"
Condensatore / Condenser					
Portata acqua - Water flow rate	m³/h	61.5+61.5	69+69	75+75	82.5+82.5
Perdita carico - Pressure drop	kPa	26+26	32+32	36+36	34+34
Contenuto acqua - Water volume	l	28	28	28	32
Attacchi idraulici - Water connections	Ø	3"	3"	3"	3"
Compressore / Compressor					
Quantità - Quantity	n°	6			
Gradini di parzializzazione - Capacity steps	n°	6			
Circuiti frigoriferi - Refrigerant circuit	n°	2			
Refrigerante - Refrigerant	-	R410A			
Dati elettrici unità / Unit electric data		(3)			
Max corrente assorbita in funzionamento - Max abs. current	A	393	427	461	495
Max corrente spunto - Max LRC	A	638	753	787	821
Alimentazione elettrica - Voltage supply	V/f/Hz	400/3/50			
Pressione sonora / Sound pressure @ 1m		(3)			
Versione STD / Version STD	dB(A)	77	77	79	82
Versione LN / Version LN	dB(A)	70	69	72	74
Versione VLN / Version VLN	dB(A)	67	69	69	71

Note: 1) Raffreddamento: evaporatore: acqua da 12 °C a 7 °C
Notes: 1) Cooling mode: evaporator water temperature 12/7 °C

2) Solo compressori escluse pompe idrauliche
 2) Compressors only, no water pump(s)

3) Escluse pompe idrauliche
 3) Without water pump(s)

Tabella tecnica - *Technical data* SCWY-F scambiatori fascio tubiero - *shell and tube exchangers*

GRANDEZZA UNITÀ - SIZE		61	71	81	91	101	121
Funzionamento con acqua di pozzo / City water 15-30°C							
Potenzialità frigorifera - Cooling capacity	(1) kW	58	67	75	86	107	125
Potenza assorbita - Abs. power	(2) kW	10.9	12.8	14.4	16.4	17.7	20.6
EER	-	5.3	5.23	5.21	5.25	6.05	6.07
Evaporatore / Evaporator							
Portata acqua - Water flow rate	m³/h	9.95	11.5	12.9	14.8	18.5	21.6
Perdita carico - Pressure drop	kPa	43	41	37	40	49	67
Contenuto acqua - Water volume	l	19	19	23	23	26	29
Attacchi idraulici - Water connections	Ø	1½"	1½"	2"	2"	2"	2"
Condensatore / Condenser							
Portata acqua - Water flow rate	m³/h	3.94	4.57	5.12	5.88	7.17	8.36
Perdita carico - Pressure drop	kPa	8	10	12	16	22	29
Contenuto acqua - Water volume	l	12	12	12	12	12	12
Attacchi idraulici - Water connections	Ø	2"	2"	2"	2"	2"	2"
Funzionamento con acqua di torre / Tower water 30-35°C							
Potenzialità frigorifera - Cooling capacity	(1) kW	54	62	70	80	102	118
Potenza assorbita - Abs. power	(2) kW	12.4	14.6	16.3	18.5	19.7	22.8
EER	-	4.35	4.26	4.27	4.33	5.18	5.18
Evaporatore / Evaporator							
Portata acqua - Water flow rate	m³/h	9.27	10.7	12	13.8	17.6	20.3
Perdita carico - Pressure drop	kPa	37	35	31	35	44	59
Contenuto acqua - Water volume	l	19	19	23	23	26	29
Attacchi idraulici - Water connections	Ø	1½"	1½"	2"	2"	2"	2"
Condensatore / Condenser							
Portata acqua - Water flow rate	m³/h	11.4	13.2	14.8	17	21	24.2
Perdita carico - Pressure drop	kPa	7	9	11	15	21	28
Contenuto acqua - Water volume	l	12	12	12	12	12	12
Attacchi idraulici - Water connections	Ø	2"	2"	2"	2"	2"	2"
Funzionamento / glicole / Dry Cooler water/glycol 30% 40-45°C							
Potenzialità frigorifera - Cooling capacity	(1) kW	45.1	51.4	57.9	66.8	87.6	102
Potenza assorbita - Abs. power	(2) kW	16.3	19.3	21.4	24	25.5	29.6
EER	-	2.77	2.66	2.71	2.78	3.44	3.45
Evaporatore / Evaporator							
Portata acqua - Water flow rate	m³/h	7.75	8.84	9.96	11.5	15.1	17.6
Perdita carico - Pressure drop	kPa	26	24	22	24	33	45
Contenuto acqua - Water volume	l	19	19	23	23	26	26
Attacchi idraulici - Water connections	Ø	1½"	1½"	2"	2"	2"	2"
Condensatore / Condenser							
Portata acqua - Water flow rate	m³/h	11.4	13.1	14.7	16.8	21	24.4
Perdita carico - Pressure drop	kPa	9	10	13	17	25	34
Contenuto acqua - Water volume	l	19	19	23	23	26	26
Attacchi idraulici - Water connections	Ø	2"	2"	2"	2"	2"	2"
Compressore / Compressor							
Quantità - Quantity	n°	2					
Gradini di parzializzazione - Capacity steps	n°	2					
Circuiti frigoriferi - Refrigerant circuit	n°	1					
Refrigerante - Refrigerant	-	R410A					
Dati elettrici unità / Unit electric data		vedi unità Scambiatore Piastre / see on pg 06					
Versione PAC FASCIO TUBIERO / PAC SHELL and TUBE Version							
Contenuto serbatoio - Storage tank water volume	l	200	200	200	200	470	470
Potenza pompa - Water pump nominal power	kW	contattare sede / contact factory					
Corrente pompa - Water pump nominal current	A						
Prevalenza utile - ESP pump	kPa						
Pressione sonora / Sound pressure @ 1m							
Versione STD / Version STD	dB(A)	69	69	70	71	72	77
Versione LN / Version LN	dB(A)	62	61	63	63	63	71
Versione VLN / Version VLN	dB(A)	55	54	55	56	57	64

Note: 1) Raffreddamento: evaporatore: acqua da 12 °C a 7 °C
Notes: 1) Cooling mode: evaporator water temperature 12/7 °C

2) Solo compressori escluse pompe idrauliche
 2) Compressors only, no water pump(s)

3) Escluse pompe idrauliche
 3) Without water pump(s)

Tabella tecnica - *Technical data* SCWY-F scambiatori fascio tubiero - *shell and tube exchangers*

GRANDEZZA UNITÀ - SIZE		131	141	151	161	191	222
Funzionamento con acqua di pozzo / City water 15-30 °C							
Potenzialità frigorifera - <i>Cooling capacity</i>	(1) kW	142	159	175	203	224	246
Potenza assorbita - <i>Abs. power</i>	(2) kW	23.5	26.8	29.8	34.2	38.7	42.3
EER	-	6.04	5.93	5.87	5.94	5.79	5.82
Evaporatore / Evaporator							
Portata acqua - <i>Water flow rate</i>	m³/h	24.4	27.3	30.2	34.9	38.5	42.4
Perdita carico - <i>Pressure drop</i>	kPa	44	55	52	42	50	54
Contenuto acqua - <i>Water volume</i>	l	32	32	38	42	42	53
Attacchi idraulici - <i>Water connections</i>	Ø	2½"	2½"	2"	2"	2"	2"
Condensatore / Condenser							
Portata acqua - <i>Water flow rate</i>	m³/h	9.48	10.6	11.8	13.6	15.1	8.3+8.3
Perdita carico - <i>Pressure drop</i>	kPa	30	31	34	39	39	28+28
Contenuto acqua - <i>Water volume</i>	l	14	14	25	25	25	12+12
Attacchi idraulici - <i>Water connections</i>	Ø	2½"	2½"	2"	2"	2"	2"
Funzionamento con acqua di torre / Tower water 30-35 °C							
Potenzialità frigorifera - <i>Cooling capacity</i>	(1) kW	133	150	166	191	212	233
Potenza assorbita - <i>Abs. power</i>	(2) kW	26	29.7	33.1	37.9	42.9	46.9
EER	-	5.12	5.05	5.02	5.04	4.94	4.97
Evaporatore / Evaporator							
Portata acqua - <i>Water flow rate</i>	m³/h	22.8	25.8	28.5	32.9	36.4	40
Perdita carico - <i>Pressure drop</i>	kPa	38	49	46	37	44	48
Contenuto acqua - <i>Water volume</i>	l	32	32	38	42	42	53
Attacchi idraulici - <i>Water connections</i>	Ø	2½"	2½"	2"	2"	2"	2"
Condensatore / Condenser							
Portata acqua - <i>Water flow rate</i>	m³/h	27.3	30.9	34.2	39.4	43.8	24.1+24.1
Perdita carico - <i>Pressure drop</i>	kPa	26	32	18	24	30	28+28
Contenuto acqua - <i>Water volume</i>	l	14	14	25	25	25	12+12
Attacchi idraulici - <i>Water connections</i>	Ø	2½"	2½"	2"	2"	2"	2"
Funzionamento / Dry Cooler water/glycol 30% 40-45 °C							
Potenzialità frigorifera - <i>Cooling capacity</i>	(1) kW	97.3	109	144	166	181	201
Potenza assorbita - <i>Abs. power</i>	(2) kW	33.1	37.8	42.9	49.1	55.4	60.6
EER	-	2.94	2.88	3.36	3.38	3.27	3.32
Evaporatore / Evaporator							
Portata acqua - <i>Water flow rate</i>	m³/h	16.7	18.7	24.7	28.6	31.2	34.6
Perdita carico - <i>Pressure drop</i>	kPa	21	26	35	28	33	36
Contenuto acqua - <i>Water volume</i>	l	32	32	38	42	42	53
Attacchi idraulici - <i>Water connections</i>	Ø	2½"	2½"	2"	2"	2"	2"
Condensatore / Condenser							
Portata acqua - <i>Water flow rate</i>	m³/h	24.2	27.2	34.6	39.9	43.9	24.3+24.3
Perdita carico - <i>Pressure drop</i>	kPa	25	30	23	30	36	26+26
Contenuto acqua - <i>Water volume</i>	l	14	14	25	25	25	12+12
Attacchi idraulici - <i>Water connections</i>	Ø	2½"	2½"	2"	2"	2"	2"
Compressore / Compressor							
Quantità - <i>Quantity</i>	n°	2					4
Gradini di parzializzazione - <i>Capacity steps</i>	n°	2					4
Circuiti frigoriferi - <i>Refrigerant circuit</i>	n°	1					2
Refrigerante - <i>Refrigerant</i>	-	R410A					
Dati elettrici unità / Unit electric data		(3)	vedi unità Scambiatore Piastre / see on pg 07				
Versione PAC FASCIO TUBIERO / PAC SHELL and TUBE Version							
Contenuto serbatoio - <i>Storage tank water volume</i>	l	470	660	660	660	660	660
Potenza pompa - <i>Water pump nominal power</i>	kPa	contattare sede / contact factory					
Corrente pompa - <i>Water pump nominal current</i>	A						
Prevalenza utile - <i>ESP pump</i>	kPa						
Pressione sonora / Sound pressure @ 1m		(3)					
Versione STD / <i>Version STD</i>	dB(A)	78	77	80	80	79	80
Versione LN / <i>Version LN</i>	dB(A)	71	70	74	73	72	74
Versione VLN / <i>Version VLN</i>	dB(A)	64	63	67	66	65	67

Note: 1) Raffreddamento: evaporatore: acqua da 12 °C a 7 °C
Notes: 1) Cooling mode: evaporator water temperature 12/7 °C

2) Solo compressori escluse pompe idrauliche
 2) Compressors only, no water pump(s)

3) Escluse pompe idrauliche
 3) Without water pump(s)

Tabella tecnica - *Technical data* SCWY-F scambiatori fascio tubiero - *shell and tube exchangers*

GRANDEZZA UNITÀ - <i>SIZE</i>		242	282	312	342	382	442	482
Funzionamento con acqua di pozzo / <i>City water</i> 15-30 °C								
Potenzialità frigorifera - <i>Cooling capacity</i>	(1) kW	272	310	339	392	446	507	567
Potenza assorbita - <i>Abs. power</i>	(2) kW	48.2	54.1	60.7	68.7	76.7	88.3	100
EER	-	5.64	5.73	5.58	5.71	5.81	5.74	5.69
Evaporatore / <i>Evaporator</i>								
Portata acqua - <i>Water flow rate</i>	m³/h	46.8	53.4	58.2	67.4	76.8	87.2	97.9
Perdita carico - <i>Pressure drop</i>	kPa	65	64	78	48	52	67	70
Contenuto acqua - <i>Water volume</i>	l	53	57	97	89	97	97	97
Attacchi idraulici - <i>Water connections</i>	Ø	4"	4"	4"	4"	DN125	DN125	DN125
Condensatore / <i>Condenser</i>								
Portata acqua - <i>Water flow rate</i>	m³/h	9.2+9.2	10.5+10.5	11.5+11.5	13.2+13.2	15+15	17.1+17.1	19.2+19.2
Perdita carico - <i>Pressure drop</i>	kPa	14+14	18+18	6+6	6+6	8+8	9+9	11+11
Contenuto acqua - <i>Water volume</i>	l	14+14	14+14	25+25	25+25	25+25	25+25	25+25
Attacchi idraulici - <i>Water connections</i>	Ø	2½"+2½"	2½"+2½"	3"+3"	3"+3"	3"+3"	3"+3"	3"+3"
Funzionamento con acqua di torre / <i>Tower water</i> 30-35 °C								
Potenzialità frigorifera - <i>Cooling capacity</i>	(1) kW	257	293	321	372	422	480	540
Potenza assorbita - <i>Abs. power</i>	(2) kW	53.2	59.7	67.1	76	84.9	97.4	110
EER	-	4.83	4.91	4.78	4.89	4.97	4.93	4.91
Evaporatore / <i>Evaporator</i>								
Portata acqua - <i>Water flow rate</i>	m³/h	44.2	50.5	55.2	63.9	72.7	82.6	92.9
Perdita carico - <i>Pressure drop</i>	kPa	58.2	58	70	43	46	60	63
Contenuto acqua - <i>Water volume</i>	l	53	57	97	89	97	97	97
Attacchi idraulici - <i>Water connections</i>	Ø	4"	4"	4"	4"	DN125	DN125	DN125
Condensatore / <i>Condenser</i>								
Portata acqua - <i>Water flow rate</i>	m³/h	26.7+26.7	30.4+30.4	33.4+33.4	38.5+38.5	43.7+43.7	49.7+49.7	56+56
Perdita carico - <i>Pressure drop</i>	kPa	12+12	16+16	9+9	12+12	14+14	18+18	18+18
Contenuto acqua - <i>Water volume</i>	l	14+14	14+14	25+25	25+25	25+25	25+25	25+25
Attacchi idraulici - <i>Water connections</i>	Ø	2½"+2½"	2½"+2½"	3"+3"	3"+3"	3"+3"	3"+3"	3"+3"
Funzionamento / <i>Dry Cooler water/glycol</i> 30% 40-45 °C								
Potenzialità frigorifera - <i>Cooling capacity</i>	(1) kW	220	253	275	318	362	414	469
Potenza assorbita - <i>Abs. power</i>	(2) kW	68.6	77	86.6	98.1	110	125	140
EER	-	3.21	3.29	3.18	3.24	3.29	3.29	3.35
Evaporatore / <i>Evaporator</i>								
Portata acqua - <i>Water flow rate</i>	m³/h	37.8	43.6	47.3	54.7	62.2	70.7	80.7
Perdita carico - <i>Pressure drop</i>	kPa	43	43	51	32	34	44	48
Contenuto acqua - <i>Water volume</i>	l	53	57	97	89	97	97	97
Attacchi idraulici - <i>Water connections</i>	Ø	4"	4"	4"	4"	DN125	DN125	DN125
Condensatore / <i>Condenser</i>								
Portata acqua - <i>Water flow rate</i>	m³/h	26.7+26.7	30.6+30.6	33.5+33.5	38.6+38.6	43.7+43.7	49.7+49.7	56.5+56.5
Perdita carico - <i>Pressure drop</i>	kPa	15+15	20+20	11+11	14+14	18+18	22+22	22+22
Contenuto acqua - <i>Water volume</i>	l	14+14	16+16	25+25	25+25	37+37	37+37	37+37
Attacchi idraulici - <i>Water connections</i>	Ø	2½"+2½"	2½"+2½"	3"+3"	3"+3"	3"+3"	3"+3"	3"+3"
Compressore / <i>Compressor</i>								
Quantità - <i>Quantity</i>	n°	4						
Gradini di parzializzazione - <i>Capacity steps</i>	n°	4						
Circuiti frigoriferi - <i>Refrigerant circuit</i>	n°	2						
Refrigerante - <i>Refrigerant</i>	-	R410A						
Dati elettrici unità / <i>Unit electric data</i>		(3)	vedi unità Scambiatore Piastre / <i>see on pg 08</i>					
Versione PAC FASCIO TUBIERO / <i>PAC SHELL and TUBE Version</i>								
Contenuto serbatoio - <i>Storage tank water volume</i>	l	660	660	660	660	660	660	660
Potenza pompa - <i>Water pump nominal power</i>	kPa	contattare sede / <i>contact factory</i>						
Corrente pompa - <i>Water pump nominal current</i>	A							
Prevalenza utile - <i>ESP pump</i>	kPa							
Pressione sonora / <i>Sound pressure @ 1m</i>		(3)						
Versione STD / <i>Version STD</i>	dB(A)	81	80	83	83	82	87	86
Versione LN / <i>Version LN</i>	dB(A)	74	73	77	76	75	80	82
Versione VLN / <i>Version VLN</i>	dB(A)	67	66	70	69	68	72	74

Note: 1) Raffreddamento: evaporatore: acqua da 12 °C a 7 °C
Notes: 1) *Cooling mode: evaporator water temperature 12/7 °C*

2) Solo compressori escluse pompe idrauliche
 2) *Compressors only, no water pump(s)*

3) Escluse pompe idrauliche
 3) *Without water pump(s)*

Tabella tecnica - *Technical data* SCWY-F scambiatori fascio tubiero - *shell and tube exchangers*

GRANDEZZA UNITÀ - SIZE		522	582	642	682
Funzionamento con acqua di pozzo / City water 15-30 °C					
Potenzialità frigorifera - <i>Cooling capacity</i>	(1) kW	673	723	790	839
Potenza assorbita - <i>Abs. power</i>	(2) kW	115	127	138	150
EER	-	5.85	5.69	5.72	5.59
Evaporatore / Evaporator					
Portata acqua - <i>Water flow rate</i>	m³/h	116	124	136	144
Perdita carico - <i>Pressure drop</i>	kPa	53	55	61	68
Contenuto acqua - <i>Water volume</i>	l	110	120	130	130
Attacchi idraulici - <i>Water connections</i>	Ø	DN150	DN150	DN150	DN150
Condensatore / Condenser					
Portata acqua - <i>Water flow rate</i>	m³/h	22.6+22.6	24.4+24.4	26.6+26.6	28.4+28.4
Perdita carico - <i>Pressure drop</i>	kPa	5+5	13+13	14+14	16+16
Contenuto acqua - <i>Water volume</i>	l	55+55	60+60	60+60	60+60
Attacchi idraulici - <i>Water connections</i>	Ø	3"	DN100	DN100	DN100
Funzionamento con acqua di torre / Tower water 30-35 °C					
Potenzialità frigorifera - <i>Cooling capacity</i>	(1) kW	638	686	748	795
Potenza assorbita - <i>Abs. power</i>	(2) kW	127	140	152	165
EER	-	5.02	4.90	4.92	4.82
Evaporatore / Evaporator					
Portata acqua - <i>Water flow rate</i>	m³/h	110	118	129	137
Perdita carico - <i>Pressure drop</i>	kPa	48	49	55	61
Contenuto acqua - <i>Water volume</i>	l	110	120	130	130
Attacchi idraulici - <i>Water connections</i>	Ø	DN150	DN150	DN150	DN150
Condensatore / Condenser					
Portata acqua - <i>Water flow rate</i>	m³/h	66+66	71+71	77.5+77.5	82.5+82.5
Perdita carico - <i>Pressure drop</i>	kPa	14+14	13+13	16+16	18+18
Contenuto acqua - <i>Water volume</i>	l	55+55	60+60	60+60	60+60
Attacchi idraulici - <i>Water connections</i>	Ø	3"	DN100	DN100	DN100
Funzionamento / Dry Cooler water/glycol 30% 40-45 °C					
Potenzialità frigorifera - <i>Cooling capacity</i>	(1) kW	553	588	642	684
Potenza assorbita - <i>Abs. power</i>	(2) kW	164	180	194	210
EER	-	3.37	3.27	3.31	3.26
Evaporatore / Evaporator					
Portata acqua - <i>Water flow rate</i>	m³/h	95.2	101	110	118
Perdita carico - <i>Pressure drop</i>	kPa	36	36	40	45
Contenuto acqua - <i>Water volume</i>	l	110	120	130	130
Attacchi idraulici - <i>Water connections</i>	Ø	4"	4"	4"	4"
Condensatore / Condenser					
Portata acqua - <i>Water flow rate</i>	m³/h	66.5+66.5	71+71	77.5+77.5	83+83
Perdita carico - <i>Pressure drop</i>	kPa	17+17	16+16	20+20	22+22
Contenuto acqua - <i>Water volume</i>	l	55+55	60+60	60+60	60+60
Attacchi idraulici - <i>Water connections</i>	Ø	3"	DN100	DN100	DN100
Compressore / Compressor					
Quantità - <i>Quantity</i>	n°	6			
Gradini di parzializzazione - <i>Capacity steps</i>	n°	6			
Circuiti frigoriferi - <i>Refrigerant circuit</i>	n°	2			
Refrigerante - <i>Refrigerant</i>	-	R410A			
Dati elettrici unità / Unit electric data (3)		vedi unità Scambiatore Piastre / see on pg 09			
Versione PAC FASCIO TUBIERO / PAC SHELL and TUBE Version					
Contenuto serbatoio - <i>Storage tank water volume</i>	l	1100	1100	1100	1100
Potenza pompa - <i>Water pump nominal power</i>	kPa	contattare sede / <i>contact factory</i>			
Corrente pompa - <i>Water pump nominal current</i>	A				
Prevalenza utile - <i>ESP pump</i>	kPa				
Pressione sonora / Sound pressure @ 1m (3)					
Versione STD / <i>Version STD</i>	dB(A)	84	87	89	90
Versione LN / <i>Version LN</i>	dB(A)	70	69	72	74
Versione VLN / <i>Version VLN</i>	dB(A)	70	74	76	77

Note: 1) Raffreddamento: evaporatore: acqua da 12 °C a 7 °C
Notes: 1) Cooling mode: evaporator water temperature 12/7 °C

2) Solo compressori escluse pompe idrauliche
 2) Compressors only, no water pump(s)

3) Escluse pompe idrauliche
 3) Without water pump(s)

SCWY-P: PRESTAZIONI scambiatori a piastre - *PERFORMANCE plate to plate exchangers*

RESE FRIGORIFERE E POTENZE ASSORBITE - *COOLING CAPACITY AND ABSORBED POWERS*

MOD.	EVAP. Tw °C out.	CONDENSATORE Temperatura acqua in/out °C - <i>CONDENSER in/out water temperature °C</i>											
		ACQUA DI POZZO - <i>CITY WATER</i>				ACQUA DI TORRE - <i>TOWER WATER</i>				DRY COOLER (EG30%)			
		10/25		15/30		30/35		35/40		40/45		45/50	
		kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa
61	5	59,1	9,8	56,1	10,9	52,4	12,3	49,2	13,7	45,7	15,3	42,4	17,1
	6	61,1	9,8	58,0	10,9	54,2	12,4	50,9	13,7	47,4	15,4	44,0	17,1
	7	63,2	9,9	59,9	11,0	56,0	12,4	52,6	13,8	49,1	15,4	45,6	17,1
	8	65,3	10,0	61,9	11,1	57,9	12,5	54,4	13,9	50,8	15,5	47,3	17,2
	9	67,4	10,0	64,0	11,1	59,8	12,6	56,3	13,9	52,5	15,5	49,0	17,2
	10	69,6	10,1	66,1	11,2	61,8	12,6	58,1	14,0	54,3	15,6	50,7	17,3
71	5	68,9	11,4	65,4	12,8	60,9	14,6	56,8	16,3	52,6	18,3	48,5	20,4
	6	71,1	11,5	67,6	12,8	63,0	14,6	58,8	16,4	54,5	18,3	50,4	20,4
	7	73,5	11,6	69,8	12,9	65,1	14,7	60,9	16,4	56,5	18,4	52,3	20,5
	8	75,9	11,6	72,1	13,0	67,3	14,8	63,0	16,5	58,5	18,4	54,2	20,5
	9	78,3	11,7	74,5	13,0	69,6	14,8	65,2	16,5	60,6	18,5	56,2	20,5
	10	80,8	11,8	76,9	13,1	71,8	14,9	67,4	16,6	62,7	18,5	58,2	20,6
81	5	77,5	12,8	73,4	14,2	68,5	16,1	64,2	18,0	59,6	20,1	55,0	22,2
	6	80,1	12,9	75,9	14,3	70,8	16,2	66,4	18,0	61,7	20,1	57,1	22,3
	7	82,9	12,9	78,5	14,4	73,3	16,3	68,7	18,1	63,9	20,2	59,3	22,4
	8	85,7	13,0	81,2	14,4	75,7	16,4	71,1	18,2	66,2	20,3	61,5	22,4
	9	88,6	13,1	83,9	14,5	78,3	16,4	73,5	18,2	68,5	20,4	63,7	22,5
	10	91,5	13,2	86,7	14,6	80,9	16,5	76,0	18,3	70,8	20,4	66,0	22,6
91	5	86,6	15,1	82,2	16,6	76,7	18,8	71,9	20,7	66,9	23,0	62,0	25,3
	6	89,5	15,2	85,0	16,8	79,3	18,9	74,4	20,8	69,2	23,1	64,2	25,4
	7	92,5	15,3	87,8	16,9	82,0	19,0	76,9	20,9	71,6	23,2	66,5	25,5
	8	95,6	15,4	90,7	17,0	84,7	19,1	79,5	21,1	74,0	23,3	68,8	25,6
	9	98,8	15,6	93,7	17,1	87,5	19,2	82,1	21,2	76,5	23,4	71,2	25,7
	10	102,0	15,7	96,8	17,2	90,3	19,3	84,8	21,3	79,0	23,6	73,6	25,8
101	5	103,0	17,6	97,4	19,3	91,2	21,6	85,7	23,8	79,9	26,4	74,3	29,0
	6	106,0	17,7	101	19,5	94,3	21,8	88,6	23,9	82,7	26,5	76,9	29,1
	7	110,0	17,8	104,0	19,6	97,5	21,9	91,7	24,1	85,5	26,6	79,6	29,2
	8	113,0	17,9	108,0	19,7	101,0	22,0	94,7	24,2	88,4	26,7	82,4	29,3
	9	117,0	18,0	111,0	19,8	104,0	22,1	97,9	24,3	91,4	26,8	85,2	29,4
	10	121,0	18,1	115,0	19,9	107,0	22,3	101,0	24,4	94,4	26,9	88,1	29,5
121	5	120,0	20,0	114,0	22,0	107,0	24,5	100,0	27,0	93,5	30,0	87,0	33,2
	6	124,0	21,1	118,0	22,1	110,0	24,7	104,0	27,2	96,8	30,2	90,0	33,3
	7	128,0	20,3	122,0	22,2	114,0	24,8	107,0	27,3	100,0	30,3	93,4	33,4
	8	133,0	20,4	126,0	22,4	118,0	25,0	111,0	27,5	104,0	30,4	96,6	33,6
	9	137,0	20,5	130,0	22,5	122,0	25,1	115,0	27,6	107,0	30,6	99,9	33,7
	10	142,0	20,7	134,0	22,6	126,0	25,3	118,0	27,8	111,0	30,7	103,0	33,8

Note:

Tw - Temp. acqua uscita evaporatore (delta T 5°C)
kWf - Resa frigorifera
kWa - Potenza assorbita

Notes:

Tw - Evaporator outlet water temperature (delta T 5°C)
kWf - Cooling capacity
kWa - Abs. power

SCWY-P: PRESTAZIONI scambiatori a piastre - *PERFORMANCE plate to plate exchangers* RESE FRIGORIFERE E POTENZE ASSORBITE - *COOLING CAPACITY AND ABSORBED POWERS*

MOD.	EVAP. Tw °C out.	CONDENSATORE Temperatura acqua in/out °C - <i>CONDENSER in/out water temperature °C</i>											
		ACQUA DI POZZO - <i>CITY WATER</i>				ACQUA DI TORRE - <i>TOWER WATER</i>				DRY COOLER (EG30%)			
		10/25		15/30		30/35		35/40		40/45		45/50	
		kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa
131	5	136,0	23,0	129,0	25,1	120,0	28,1	113,0	31,0	105,0	34,4	98,3	38,1
	6	140,0	23,1	133,0	25,3	124,0	28,2	117,0	31,1	109,0	34,6	102,0	38,3
	7	145,0	23,3	138,0	25,4	129,0	28,4	121,0	31,3	113,0	34,8	105,0	38,4
	8	150,0	23,5	142,0	25,6	133,0	28,6	125,0	31,5	117,0	34,9	109,0	38,6
	9	155,0	23,6	147,0	25,8	137,0	28,8	129,0	31,6	121,0	35,1	113,0	38,8
	10	160,0	23,8	152,0	26,0	142,0	29,0	134,0	31,8	125,0	35,3	117,0	38,9
141	5	153,0	25,7	145,0	28,2	136,0	31,5	128,0	34,8	120,0	38,6	111,0	42,6
	6	158,0	25,9	150,0	28,4	141,0	31,7	133,0	34,9	124,0	38,7	115,0	42,7
	7	163,0	26,1	156,0	28,5	146,0	31,9	137,0	35,1	128,0	38,9	119,0	42,9
	8	169,0	26,2	161,0	28,7	151,0	32,0	142,0	35,3	132,0	39,1	123,0	43,0
	9	174,0	26,4	166,0	28,9	156,0	32,2	147,0	35,4	137,0	39,2	128,0	43,2
	10	180,0	26,6	171,0	29,0	161,0	32,4	151,0	35,6	141,0	39,4	132,0	43,3
151	5	171,0	28,1	163,0	30,8	154,0	34,5	145,0	38,0	135,0	42,2	125,0	46,5
	6	177,0	28,3	169,0	31,0	159,0	34,7	150,0	38,2	140,0	42,3	130,0	46,6
	7	183,0	28,4	175,0	31,2	164,0	34,8	155,0	38,3	145,0	42,5	134,0	46,8
	8	189,0	28,6	180,0	31,3	170,0	35,0	160,0	38,5	149,0	42,6	139,0	46,9
	9	195,0	28,8	186,0	31,5	175,0	35,2	165,0	38,7	154,0	42,8	144,0	47,1
	10	202,0	29,0	193,0	31,7	181,0	35,3	171,0	38,8	160,0	43,0	149,0	47,2
161	5	193,0	31,7	184,0	34,8	172,0	39,0	162,0	42,9	151,0	47,6	140,0	52,4
	6	200,0	31,9	190,0	35,0	178,0	39,2	168,0	43,1	156,0	47,8	145,0	52,6
	7	207,0	32,1	197,0	35,2	184,0	39,4	174,0	43,3	162,0	48,0	150,0	52,8
	8	214,0	32,3	203,0	35,4	191,0	39,6	179,0	43,5	167,0	48,2	155,0	53,0
	9	221,0	32,6	210,0	35,6	197,0	39,8	185,0	43,7	173,0	48,4	160,0	53,2
	10	228,0	32,8	217,0	35,8	203,0	40,0	191,0	44,0	179,0	48,6	166,0	53,4
191	5	222,0	35,6	211,0	39,0	198,0	43,6	186,0	48,2	174,0	53,5	161,0	59,2
	6	230,0	35,8	219,0	39,3	205,0	43,9	193,0	48,4	180,0	53,7	167,0	59,4
	7	238,0	36,1	227,0	39,5	213,0	44,1	200,0	48,6	186,0	54,0	173,0	59,6
	8	246,0	36,3	234,0	39,8	220,0	44,4	207,0	48,8	193,0	54,2	179,0	59,8
	9	255,0	36,6	243,0	40,0	228,0	44,6	214,0	49,1	200,0	54,4	185,0	60,0
	10	263,0	36,8	251,0	40,3	235,0	44,9	221,0	49,4	206,0	54,7	192,0	60,3
222	5	242,0	38,6	231,0	42,5	218,0	47,2	206,0	52,0	192,0	57,8	178,0	64,0
	6	250,0	38,7	239,0	42,7	226,0	47,4	213,0	52,2	199,0	58,0	185,0	64,2
	7	259,0	38,8	247,0	42,9	233,0	47,6	220,0	52,5	206,0	58,2	191,0	64,4
	8	267,0	39,0	255,0	43,1	241,0	47,8	227,0	52,7	213,0	58,5	198,0	64,6
	9	276,0	39,1	263,0	43,2	249,0	48,1	235,0	52,9	220,0	58,7	205,0	64,9
	10	285,0	39,2	272,0	43,4	257,0	48,3	243,0	53,2	227,0	59,0	212,0	65,1

Note:

Tw - Temp. acqua uscita evaporatore (delta T 5°C)
kWf - Resa frigorifera
kWa - Potenza assorbita

Notes:

Tw - Evaporator outlet water temperature (delta T 5°C)
kWf - Cooling capacity
kWa - Abs. power

SCWY-P: PRESTAZIONI scambiatori a piastre - *PERFORMANCE plate to plate exchangers*

RESE FRIGORIFERE E POTENZE ASSORBITE - *COOLING CAPACITY AND ABSORBED POWERS*

MOD.	EVAP. Tw °C out.	CONDENSATORE Temperatura acqua in/out °C - <i>CONDENSER in/out water temperature °C</i>											
		ACQUA DI POZZO - <i>CITY WATER</i>				ACQUA DI TORRE - <i>TOWER WATER</i>				DRY COOLER (EG30%)			
		10/25		15/30		30/35		35/40		40/45		45/50	
		kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa
242	5	273,0	43,8	259,0	47,8	244,0	52,8	230,0	58,2	215,0	64,9	200,0	72,2
	6	282,0	44,0	268,0	48,0	253,0	53,0	238,0	58,5	223,0	65,1	207,0	72,4
	7	292,0	44,2	278,0	48,3	262,0	53,3	247,0	58,7	231,0	65,3	215,0	72,7
	8	302,0	44,5	287,0	48,5	271,0	53,5	255,0	59,0	239,0	65,6	223,0	72,9
	9	312,0	44,7	297,0	48,8	280,0	53,8	264,0	59,2	247,0	65,8	230,0	73,1
	10	322,0	45,0	306,0	49,1	289,0	54,1	273,0	59,5	255,0	66,1	238,0	73,3
282	5	304,0	49,4	290,0	54,1	273,0	59,9	257,0	66,1	240,0	73,5	223,0	81,5
	6	315,0	49,7	300,0	54,4	283,0	60,2	266,0	66,3	249,0	73,7	231,0	81,7
	7	326,0	50,0	310,0	54,6	293,0	60,4	276,0	66,6	257,0	74,0	240,0	82,0
	8	337,0	50,2	321,0	54,9	303,0	60,7	285,0	66,8	266,0	74,2	248,0	82,2
	9	348,0	50,5	332,0	55,2	313,0	61,0	295,0	67,1	276,0	74,5	257,0	82,4
	10	360,0	50,8	343,0	55,5	323,0	61,3	305,0	67,4	285,0	74,8	266,0	82,7
312	5	332,0	54,2	316,0	59,3	297,0	65,9	280,0	72,6	260,0	80,6	242,0	88,9
	6	343,0	54,5	327,0	59,6	308,0	66,2	289,0	72,9	270,0	80,8	251,0	89,1
	7	355,0	54,8	339,0	59,9	319,0	66,5	300,0	73,2	279,0	81,8	260,0	89,4
	8	367,0	55,1	350,0	60,2	330,0	66,8	310,0	73,4	289,0	81,4	269,0	89,6
	9	380,0	55,4	362,0	60,5	341,0	67,1	321,0	73,7	299,0	81,6	279,0	89,9
	10	393,0	55,7	374,0	60,8	352,0	67,4	332,0	74,0	310,0	81,9	288,0	90,1
342	5	386,0	61,8	368,0	67,7	347,0	75,2	327,0	82,8	305,0	92,0	284,0	102,0
	6	399,0	62,2	380,0	68,0	359,0	75,5	338,0	83,2	316,0	92,3	294,0	102,0
	7	412,0	62,5	393,0	68,4	371,0	75,9	350,0	83,5	327,0	92,6	304,0	102,0
	8	426,0	62,9	406,0	68,7	384,0	76,2	362,0	83,8	338,0	92,9	314,0	102,0
	9	440,0	63,3	420,0	69,1	397,0	76,6	374,0	84,2	350,0	93,3	325,0	103,0
	10	454,0	63,7	434,0	69,5	409,0	77,0	386,0	84,6	361,0	93,6	336,0	103,0
382	5	442,0	70,2	421,0	76,9	398,0	85,2	376,0	94,1	351,0	105,0	326,0	116,0
	6	457,0	70,6	436,0	77,3	412,0	85,6	388,0	94,5	363,0	105,0	337,0	116,0
	7	472,0	71,0	451,0	77,7	426,0	86,0	402,0	94,9	376,0	105,0	349,0	117,0
	8	488,0	71,4	466,0	78,1	440,0	86,4	416,0	95,3	388,0	106,0	361,0	117,0
	9	505,0	71,9	482,0	78,6	455,0	86,9	430,0	95,7	402,0	106,0	374,0	117,0
	10	521,0	72,3	497,0	79,0	470,0	87,3	444,0	96,1	415,0	107,0	386,0	118,0
442	5	506,0	78,3	485,0	85,3	458,0	94,8	433,0	104,0	407,0	115,0	378,0	128,0
	6	523,0	78,8	501,0	85,9	474,0	95,3	448,0	105,0	421,0	116,0	392,0	129,0
	7	541,0	79,4	518,0	86,4	489,0	95,7	462,0	105,0	433,0	116,0	403,0	129,0
	8	558,0	79,9	534,0	86,8	503,0	96,1	475,0	105,0	445,0	117,0	414,0	129,0
	9	566,0	80,2	542,0	87,1	512,0	96,4	485,0	106,0	455,0	117,0	424,0	129,0
	10	575,0	80,5	550,0	87,4	521,0	96,7	494,0	106,0	464,0	117,0	434,0	130,0
482	5	564,0	90,3	540,0	98,0	510,0	108,0	483,0	118,0	452,0	130,0	420,0	144,0
	6	583,0	90,9	559,0	98,6	528,0	109,0	499,0	119,0	468,0	131,0	435,0	145,0
	7	602,0	91,5	576,0	99,1	544,0	109,0	514,0	119,0	481,0	131,0	447,0	145,0
	8	621,0	92,2	594,0	99,7	560,0	110,0	529,0	120,0	494,0	132,0	459,0	145,0
	9	630,0	92,4	603,0	99,9	570,0	110,0	539,0	120,0	505,0	132,0	470,0	145,0
	10	639,0	92,7	611,0	100,0	579,0	110,0	549,0	120,0	515,0	132,0	481,0	146,0

Note:

Tw - Temp. acqua uscita evaporatore (delta T 5°C)
kWf - Resa frigorifera
kWa - Potenza assorbita

Notes:

Tw - Evaporator outlet water temperature (delta T 5°C)
kWf - Cooling capacity
kWa - Abs. power

SCWY-P: PRESTAZIONI scambiatori a piastre - *PERFORMANCE plate to plate exchangers* RESE FRIGORIFERE E POTENZE ASSORBITE - *COOLING CAPACITY AND ABSORBED POWERS*

MOD.	EVAP. Tw °C out.	CONDENSATORE Temperatura acqua in/out °C - <i>CONDENSER in/out water temperature °C</i>											
		ACQUA DI POZZO - <i>CITY WATER</i>				ACQUA DI TORRE - <i>TOWER WATER</i>				DRY COOLER (EG30%)			
		10/25		15/30		30/35		35/40		40/45		45/50	
		kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa
522	5	610,0	98,1	582,0	108,0	550,0	119,0	519,0	132,0	485,0	146,0	451,0	162,0
	6	630,0	98,7	602,0	108,0	569,0	120,0	537,0	132,0	502,0	147,0	467,0	163,0
	7	651,0	99,2	621,0	109,0	586,0	120,0	552,0	133,0	516,0	147,0	480,0	163,0
	8	671,0	99,8	639,0	109,0	603,0	121,0	568,0	133,0	530,0	148,0	493,0	163,0
	9	681,0	100,0	649,0	109,0	614,0	121,0	579,0	133,0	542,0	148,0	505,0	164,0
	10	691,0	100,0	659,0	110,0	624,0	121,0	590,0	134,0	553,0	148,0	517,0	164,0
582	5	731,0	110,0	702,0	119,0	622,0	140,0	586,0	154,0	534,0	171,0	499,0	188,0
	6	756,0	111,0	725,0	120,0	644,0	141,0	607,0	155,0	554,0	171,0	517,0	189,0
	7	781,0	112,0	750,0	121,0	666,0	141,0	628,0	155,0	574,0	172,0	536,0	189,0
	8	807,0	113,0	774,0	122,0	690,0	142,0	650,0	156,0	594,0	172,0	555,0	189,0
	9	821,0	113,0	787,0	122,0	714,0	142,0	673,0	156,0	615,0	173,0	575,0	190,0
	10	832,0	113,0	797,0	123,0	738,0	143,0	696,0	157,0	637,0	173,0	596,0	191,0
642	5	793,0	119,0	755,0	131,0	671,0	152,0	632,0	168,0	582,0	185,0	541,0	205,0
	6	821,0	120,0	782,0	131,0	695,0	153,0	654,0	169,0	603,0	185,0	561,0	205,0
	7	850,0	120,0	809,0	132,0	719,0	154,0	678,0	169,0	625,0	186,0	581,0	206,0
	8	878,0	121,0	837,0	132,0	744,0	154,0	701,0	170,0	646,0	187,0	602,0	207,0
	9	909,0	122,0	866,0	133,0	769,0	155,0	725,0	171,0	669,0	187,0	623,0	207,0
	10	939,0	123,0	895,0	134,0	795,0	156,0	750,0	171,0	692,0	188,0	644,0	208,0
682	5	813,0	139,0	776,0	151,0	733,0	166,0	690,0	182,0	644,0	201,0	599,0	221,0
	6	841,0	140,0	802,2	152,0	758,0	167,0	714,0	182,0	667,0	201,0	620,0	222,0
	7	869,0	141,0	830,0	153,0	784,0	168,0	739,0	183,0	690,0	202,0	642,0	222,0
	8	898,0	142,0	857,0	154,0	810,0	169,0	763,0	184,0	713,0	203,0	664,0	223,0
	9	928,0	143,0	886,0	155,0	837,0	170,0	789,0	185,0	738,0	204,0	687,0	224,0
	10	958,0	144,0	915,0	156,0	864,0	171,0	815,0	186,0	762,0	205,0	710,0	225,0

Note:

Tw - Temp. acqua uscita evaporatore (delta T 5°C)
kWf - Resa frigorifera
kWa - Potenza assorbita

Notes:

Tw - Evaporator outlet water temperature (delta T 5°C)
kWf - Cooling capacity
kWa - Abs. power

SCWY-F: PRESTAZIONI scambiatori a fascio tubiero - *PERFORMANCE shell and tube exchangers* RESE FRIGORIFERE E POTENZE ASSORBITE - *COOLING CAPACITY AND ABSORBED POWER*

MOD.	EVAP. Tw °C out.	CONDENSATORE Temperatura acqua in/out °C - <i>CONDENSER in/out water temperature °C</i>											
		ACQUA DI POZZO - <i>CITY WATER</i>				ACQUA DI TORRE - <i>TOWER WATER</i>				DRY COOLER (EG30%)			
		10/25		15/30		30/35		35/40		40/45		45/50	
		kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa
61	5	57,2	9,7	54,2	10,8	50,5	12,3	47,2	13,6	42,1	16,2	38,8	18,1
	6	59,1	9,7	56,0	10,9	52,2	12,3	48,8	13,7	43,6	16,2	40,3	18,1
	7	61,1	9,8	57,8	10,9	53,9	12,4	50,5	13,7	45,1	16,3	41,7	18,1
	8	63,0	9,9	59,7	11,0	55,6	12,4	52,1	13,8	46,6	16,3	43,2	18,1
	9	65,1	10,0	61,6	11,0	57,4	12,5	53,8	13,8	48,2	16,4	44,7	18,2
	10	67,1	10,0	63,5	11,1	59,2	12,5	55,6	13,9	49,7	16,4	46,2	18,2
71	5	66,4	11,3	62,9	12,6	58,3	14,4	54,2	16,1	48,0	19,2	44,0	21,4
	6	68,6	11,4	64,9	12,7	60,2	14,5	56,0	16,2	49,7	19,2	45,6	21,4
	7	70,7	11,4	67,0	12,8	62,2	14,6	57,9	16,2	51,4	19,3	47,3	21,5
	8	72,9	11,5	69,1	12,8	64,2	14,6	59,9	16,3	53,2	19,3	49,0	21,5
	9	75,2	11,6	71,3	12,9	66,3	14,7	61,8	16,3	55,0	19,4	50,7	21,5
	10	77,5	11,6	73,5	12,9	68,4	14,7	63,9	16,4	56,8	19,4	52,5	21,5
81	5	74,4	12,8	70,3	14,2	65,3	16,3	60,9	18,0	54,1	21,3	49,7	23,5
	6	76,8	12,9	72,6	14,3	67,4	16,2	63,0	18,0	56,0	21,3	51,5	23,6
	7	79,4	12,9	75,0	14,4	69,6	16,3	65,0	18,1	57,9	21,4	53,4	23,6
	8	81,9	13,0	77,4	14,4	71,9	16,4	67,2	18,2	59,9	21,5	55,3	23,7
	9	84,6	13,1	79,9	14,5	74,2	16,4	69,4	18,2	61,9	21,5	57,3	23,8
	10	87,3	13,2	82,4	14,6	76,6	16,5	71,7	18,3	64,0	21,6	59,2	23,8
91	5	85,2	14,7	80,7	16,2	75,1	18,3	70,3	20,2	62,6	23,7	57,8	26,2
	6	87,9	14,8	83,3	16,3	77,6	18,4	72,6	20,3	64,7	23,8	59,7	26,3
	7	90,8	14,9	86,1	16,4	80,1	18,5	75,0	20,4	66,8	24,0	61,8	26,4
	8	93,7	15,0	88,8	16,5	82,7	18,6	77,4	20,5	69,0	24,1	63,8	26,5
	9	96,8	15,1	91,7	16,6	85,3	18,7	79,8	20,6	71,3	24,2	66,0	26,6
	10	99,8	15,3	94,6	16,8	88,0	18,8	82,4	20,7	73,6	24,3	68,1	26,7
101	5	104,0	16,0	99,5	17,5	94,2	19,5	89,1	21,5	80,4	25,3	77,7	26,5
	6	107,0	16,1	103,0	17,6	97,6	19,6	92,4	21,6	83,4	25,4	80,7	26,6
	7	112,0	16,1	107,0	17,7	102,0	19,7	96,9	21,7	87,6	25,5	84,9	26,8
	8	116,0	16,2	112,0	17,8	106,0	19,8	101,0	21,8	90,8	25,7	88,1	26,9
	9	120,0	16,3	115,0	17,9	109,0	19,9	104,0	21,9	93,6	25,7	90,7	27,0
	10	124,0	16,4	119,0	18,0	112,0	20,0	106,0	22,0	96,0	25,8	93,0	27,0
121	5	114,0	18,5	113,0	20,3	106,0	22,5	105,0	24,9	90,2	29,2	87,2	30,6
	6	122,0	18,7	117,0	20,4	111,0	22,6	112,0	25,1	94,4	29,3	91,4	30,8
	7	131,0	18,9	125,0	20,6	118,0	22,8	121,0	25,4	102,0	29,6	99,9	31,9
	8	139,0	19,1	133,0	20,8	127,0	23,1	122,0	25,5	111,0	29,9	108,0	31,3
	9	141,0	19,1	135,0	20,8	129,0	23,2	122,0	25,5	110,0	29,9	107,0	31,3
	10	143,0	19,2	137,0	20,9	100,0	24,8	90,2	29,2	110,0	29,9	107,0	31,3

Note:

Tw - Temp. acqua uscita evaporatore (delta T 5°C)
kWf - Resa frigorifera
kWa - Potenza assorbita

Notes:

Tw - Evaporator outlet water temperature (delta T 5°C)
kWf - Cooling capacity
kWa - Abs. power

SCWY-F: PRESTAZIONI scambiatori a fascio tubiero - *PERFORMANCE shell and tube exchangers* RESE FRIGORIFERE E POTENZE ASSORBITE - *COOLING CAPACITY AND ABSORBED POWER*

MOD.	EVAP. Tw °C out.	CONDENSATORE Temperatura acqua in/out °C - <i>CONDENSER in/out water temperature °C</i>											
		ACQUA DI POZZO - <i>CITY WATER</i>				ACQUA DI TORRE - <i>TOWER WATER</i>				DRY COOLER (EG30%)			
		10/25		15/30		30/35		35/40		40/45		45/50	
		kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa
131	5	128,0	21,2	169,0	23,2	120,0	25,6	113,0	28,2	102,0	33,3	98,4	34,9
	6	138,0	21,4	132,0	23,3	125,0	25,8	118,0	28,4	106,0	33,5	103,0	35,1
	7	148,0	21,6	142,0	23,5	133,0	26,0	127,0	28,7	97,3	33,1	85,0	34,5
	8	158,0	21,9	151,0	23,8	144,0	26,4	138,0	29,0	127,0	34,2	124,0	35,9
	9	160,0	21,9	153,0	23,9	146,0	26,4	138,0	29,0	125,0	34,2	121,0	35,8
	10	163,0	22,0	155,0	23,9	146,0	26,4	138,0	29,0	125,0	34,2	115,8	35,8
141	5	144,0	24,0	177,0	26,0	135,0	29,2	127,0	32,2	114,0	38,0	111,0	39,8
	6	155,0	24,2	148,0	26,5	140,0	29,4	132,0	32,4	119,0	38,1	116,0	40,9
	7	166,0	24,5	159,0	26,8	150,0	29,7	143,0	32,7	109,0	37,8	94,5	39,3
	8	176,0	24,8	170,0	27,1	162,0	30,1	155,0	33,1	142,0	38,8	134,0	40,7
	9	179,0	24,8	172,0	27,1	163,0	30,1	155,0	33,1	140,0	38,8	136,0	40,6
	10	182,0	24,9	173,0	27,2	164,0	30,1	155,0	33,1	140,0	38,8	135,0	40,6
151	5	161,0	26,7	209,0	29,2	151,0	32,7	143,0	36,1	128,0	42,5	124,0	44,5
	6	172,0	27,0	165,0	29,5	156,0	32,9	148,0	36,3	134,0	42,6	129,0	44,6
	7	183,0	27,2	175,0	29,8	166,0	33,1	157,0	36,5	144,0	42,9	140,0	45,0
	8	193,0	27,4	186,0	30,0	177,0	33,4	169,0	36,8	153,0	43,2	149,0	45,2
	9	197,0	27,5	189,0	30,1	181,0	33,6	172,0	36,9	156,0	43,2	151,0	45,2
	10	182,0	24,9	193,0	30,2	183,0	33,6	173,0	37,0	156,0	43,3	151,0	45,2
161	5	191,0	30,7	235,0	33,4	173,0	37,4	164,0	41,3	148,0	48,5	143,0	50,8
	6	199,0	30,9	190,0	33,8	180,0	37,6	171,0	41,5	154,0	48,7	150,0	51,0
	7	211,0	31,2	203,0	34,2	191,0	37,9	183,0	41,8	166,0	49,1	162,0	51,4
	8	224,0	31,5	215,0	34,6	205,0	38,3	195,0	42,2	177,0	49,4	173,0	51,7
	9	228,0	31,6	219,0	34,7	209,0	38,5	198,0	42,3	179,0	49,5	174,0	51,7
	10	233,0	31,8	222,0	34,8	210,0	38,5	199,0	42,3	181,0	49,5	176,0	51,7
191	5	208,0	34,5	262,0	37,8	193,0	42,3	182,0	46,7	164,0	54,8	159,0	57,4
	6	221,0	34,8	211,0	38,3	200,0	42,5	189,0	46,9	171,0	55,1	166,0	57,6
	7	234,0	35,0	224,0	38,7	212,0	42,9	201,0	47,3	181,0	55,4	176,0	57,9
	8	247,0	35,6	237,0	39,1	225,0	43,4	214,0	47,8	195,0	55,8	190,0	58,3
	9	253,0	35,8	242,0	39,3	231,0	43,6	219,0	48,0	199,0	56,0	193,0	58,4
	10	260,0	35,9	247,0	39,5	234,0	43,7	221,0	48,0	200,0	56,0	194,0	58,5
222	5	228,0	37,8	280,0	40,7	212,0	46,2	200,0	50,9	180,0	59,8	174,0	62,6
	6	243,0	38,1	232,0	41,9	220,0	46,5	208,0	51,2	188,0	60,1	182,0	62,9
	7	258,0	38,4	246,0	42,3	233,0	46,9	222,0	51,6	201,0	60,6	196,0	63,4
	8	273,0	38,6	261,0	42,7	248,0	47,3	236,0	52,1	214,0	61,0	208,0	63,8
	9	279,0	38,7	266,0	42,8	254,0	47,5	241,0	52,3	218,0	61,1	211,0	63,9
	10	285,0	38,8	271,0	43,0	257,0	47,6	243,0	52,3	220,0	61,2	214,0	64,0

Note:

Tw - Temp. acqua uscita evaporatore (delta T 5°C)
kWf - Resa frigorifera
kWa - Potenza assorbita

Notes:

Tw - Evaporator outlet water temperature (delta T 5°C)
kWf - Cooling capacity
kWa - Abs. power

SCWY-F: PRESTAZIONI scambiatori a fascio tubiero - *PERFORMANCE shell and tube exchangers* RESE FRIGORIFERE E POTENZE ASSORBITE - *COOLING CAPACITY AND ABSORBED POWER*

MOD.	EVAP. Tw °C out.	CONDENSATORE Temperatura acqua in/out °C - <i>CONDENSER in/out water temperature °C</i>											
		ACQUA DI POZZO - <i>CITY WATER</i>				ACQUA DI TORRE - <i>TOWER WATER</i>				DRY COOLER (EG30%)			
		10/25		15/30		30/35		35/40		40/45		45/50	
		kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa
242	5	255,0	43,2	329,0	47,5	234,0	52,5	221,0	57,8	199,0	67,9	192,0	71,1
	6	270,0	43,6	257,0	47,8	243,0	52,7	229,0	58,1	207,0	68,2	200,0	71,4
	7	286,0	44,0	272,0	48,2	257,0	53,2	243,0	58,5	220,0	68,6	213,0	71,8
	8	301,0	44,4	287,0	48,7	272,0	53,8	259,0	59,1	235,0	69,1	228,0	72,3
	9	310,0	44,7	294,0	49,0	281,0	54,0	266,0	59,4	241,0	69,5	234,0	72,5
	10	318,0	44,9	302,0	49,2	285,0	54,2	269,0	59,5	243,0	69,5	236,0	72,5
282	5	288,0	48,5	374,0	53,1	267,0	58,9	252,0	64,9	227,0	76,0	220,0	79,5
	6	306,0	48,9	292,0	53,5	277,0	59,2	262,0	65,2	237,0	76,4	229,0	79,9
	7	325,0	49,3	310,0	54,1	293,0	59,7	278,0	65,6	253,0	77,0	247,0	80,6
	8	343,0	49,8	328,0	54,6	313,0	60,0	297,0	66,2	270,0	77,6	262,0	81,1
	9	352,0	50,0	336,0	54,8	321,0	60,4	304,0	66,4	275,0	77,8	267,0	81,3
	10	360,0	50,2	343,0	55,0	325,0	60,5	307,0	66,4	277,0	77,8	268,0	81,4
312	5	317,0	54,3	408,0	59,5	293,0	66,4	277,0	73,1	250,0	85,8	242,0	89,7
	6	335,0	54,8	320,0	60,2	304,0	66,7	287,0	73,4	259,0	86,1	251,0	90,0
	7	354,0	55,2	339,0	60,7	321,0	67,1	304,0	73,9	275,0	86,6	267,0	90,5
	8	373,0	55,7	357,0	61,3	340,0	67,7	323,0	74,4	293,0	87,2	285,0	91,1
	9	383,0	56,0	366,0	61,5	351,0	68,0	333,0	74,7	301,0	87,4	292,0	91,4
	10	394,0	56,2	375,0	61,8	356,0	68,1	337,0	74,8	304,0	87,5	295,0	91,5
342	5	366,0	61,5	473,0	67,4	339,0	75,1	321,0	82,7	289,0	97,0	280,0	102,0
	6	388,0	62,0	371,0	68,1	351,0	75,4	332,0	83,1	300,0	109,5	291,0	102,0
	7	410,0	62,6	392,0	68,7	372,0	76,0	352,0	83,6	318,0	98,1	308,0	103,0
	8	432,0	63,1	414,0	69,3	394,0	76,6	374,0	84,3	339,0	98,8	330,0	103,0
	9	444,0	63,4	424,0	69,6	406,0	77,0	385,0	84,6	348,0	99,1	337,0	104,0
	10	456,0	63,7	435,0	69,9	412,0	77,2	390,0	84,7	352,0	99,2	341,0	104,0
382	5	415,0	68,6	549,0	75,7	385,0	83,8	363,0	92,4	328,0	108,0	318,0	113,0
	6	441,0	69,3	421,0	75,9	398,0	84,2	377,0	92,8	341,0	109,0	330,0	114,0
	7	466,0	70,0	446,0	76,7	422,0	84,9	400,0	93,5	362,0	110,0	351,0	115,0
	8	492,0	70,7	472,0	77,4	449,0	85,6	427,0	94,2	387,0	111,0	376,0	116,0
	9	505,0	71,0	483,0	77,8	462,0	86,0	438,0	94,6	396,0	111,0	384,0	116,0
	10	518,0	71,3	494,0	78,1	468,0	86,2	443,0	94,7	399,0	111,0	386,0	116,0
442	5	472,0	79,3	595,0	87,0	438,0	96,0	413,0	105,0	374,0	123,0	362,0	128,0
	6	500,0	80,2	479,0	87,4	453,0	96,5	429,0	106,0	388,0	123,0	376,0	129,0
	7	529,0	81,1	507,0	88,3	480,0	97,4	455,0	107,0	411,0	125,0	399,0	130,0
	8	558,0	82,0	535,0	89,3	509,0	98,4	483,0	108,0	438,0	126,0	426,0	131,0
	9	572,0	82,4	548,0	89,7	524,0	98,9	496,0	108,0	449,0	126,0	435,0	132,0
	10	587,0	82,9	561,0	90,1	531,0	99,1	502,0	108,0	453,0	126,0	439,0	132,0
482	5	529,0	90,0	684,0	99,7	492,0	108,0	465,0	118,0	420,0	137,0	408,0	143,0
	6	561,0	91,2	537,0	99,0	510,0	109,0	483,0	119,0	437,0	138,0	424,0	144,0
	7	594,0	92,4	569,0	100,0	540,0	110,0	512,0	120,0	469,0	140,0	458,0	146,0
	8	626,0	93,5	601,0	101,0	573,0	111,0	545,0	121,0	494,0	141,0	480,0	147,0
	9	641,0	94,0	615,0	102,0	588,0	112,0	558,0	122,0	504,0	141,0	489,0	147,0
	10	657,0	94,5	628,0	102,0	596,0	112,0	564,0	122,0	509,0	142,0	493,0	147,0

Note:

Tw - Temp. acqua uscita evaporatore (delta T 5°C)
kWf - Resa frigorifera
kWa - Potenza assorbita

Notes:

Tw - Evaporator outlet water temperature (delta T 5°C)
kWf - Cooling capacity
kWa - Abs. power

SCWY-F: PRESTAZIONI scambiatori a fascio tubiero - *PERFORMANCE shell and tube exchangers* RESE FRIGORIFERE E POTENZE ASSORBITE - *COOLING CAPACITY AND ABSORBED POWER*

MOD.	EVAP. Tw °C out.	CONDENSATORE Temperatura acqua in/out °C - <i>CONDENSER in/out water temperature °C</i>											
		ACQUA DI POZZO - <i>CITY WATER</i>				ACQUA DI TORRE - <i>TOWER WATER</i>				DRY COOLER (EG30%)			
		10/25		15/30		30/35		35/40		40/45		45/50	
		kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa	kWf	kWa
522	5	625,0	103,0	759,0	111,0	580,0	125,0	548,0	138,0	495,0	162,0	480,0	169,0
	6	664,0	104,0	635,0	113,0	601,0	126,0	569,0	139,0	515,0	163,0	499,0	170,0
	7	703,0	105,0	673,0	115,0	638,0	127,0	605,0	140,0	553,0	164,0	540,0	172,0
	8	742,0	106,0	712,0	116,0	677,0	128,0	644,0	141,0	584,0	166,0	567,0	173,0
	9	762,0	106,0	729,0	116,0	697,0	129,0	660,0	142,0	596,0	166,0	578,0	174,0
	10	781,0	107,0	746,0	117,0	706,0	129,0	668,0	142,0	602,0	166,0	582,0	174,0
582	5	677,0	114,0	817,0	124,0	627,0	138,0	593,0	152,0	535,0	178,0	518,0	186,0
	6	716,0	115,0	684,0	126,0	648,0	139,0	613,0	153,0	554,0	179,0	537,0	187,0
	7	755,0	116,0	723,0	127,0	686,0	140,0	651,0	154,0	588,0	180,0	570,0	189,0
	8	794,0	117,0	762,0	128,0	725,0	142,0	690,0	155,0	625,0	182,0	607,0	190,0
	9	817,0	118,0	782,0	129,0	749,0	142,0	710,0	156,0	641,0	183,0	622,0	191,0
	10	840,0	119,0	803,0	130,0	760,0	143,0	720,0	156,0	649,0	183,0	628,0	191,0
642	5	734,0	124,0	934,0	137,0	682,0	150,0	645,0	165,0	583,0	192,0	565,0	200,0
	6	779,0	126,0	745,0	137,0	705,0	151,0	668,0	165,0	605,0	193,0	586,0	201,0
	7	823,0	127,0	790,0	138,0	748,0	152,0	709,0	167,0	642,0	194,0	622,0	203,0
	8	868,0	128,0	834,0	140,0	793,0	154,0	755,0	168,0	685,0	196,0	665,0	205,0
	9	891,0	129,0	854,0	140,0	817,0	155,0	775,0	169,0	700,0	197,0	679,0	206,0
	10	914,0	1300,0	874,0	141,0	828,0	155,0	784,0	169,0	706,0	197,0	684,0	206,0
682	5	786,0	135,0	995,0	149,0	729,0	162,0	690,0	178,0	623,0	207,0	604,0	215,0
	6	830,0	137,0	795,0	148,0	754,0	163,0	713,0	179,0	645,0	208,0	625,0	216,0
	7	875,0	138,0	839,0	150,0	795,0	165,0	756,0	180,0	684,0	210,0	663,0	219,0
	8	920,0	140,0	884,0	152,0	842,0	167,0	801,0	182,0	727,0	212,0	707,0	221,0
	9	947,0	141,0	908,0	153,0	870,0	168,0	826,0	183,0	747,0	212,0	725,0	221,0
	10	974,0	142,0	932,0	154,0	884,0	168,0	837,0	183,0	756,0	213,0	732,0	222,0

Note:

Tw - Temp. acqua uscita evaporatore (delta T 5°C)
kWf - Resa frigorifera
kWa - Potenza assorbita

Notes:

Tw - Evaporator outlet water temperature (delta T 5°C)
kWf - Cooling capacity
kWa - Abs. power

Tabella tecnica - *Technical data* SCWY-P scambiatori a piastre - *plate to plate exchangers* Versione pompa di calore - *Heat pump version*

GRANDEZZA UNITÁ - <i>SIZE</i>			61	71	81	91	101	121
Funzionamento pompa di calore / <i>Heating mode</i>								
Potenzialità termica - <i>Heating capacity</i>	(1)	kW	64.2	74.5	83.7	94.3	111	129
Potenza assorbita - <i>Absorbed power</i>	(2)	kW	14.4	17.1	19	21.7	25.3	29
COP		-	4.46	4.36	4.41	4.35	4.39	4.45
Evaporatore / <i>Evaporator</i>	(3)		vedi portate d'acqua e perdite di carico a pg 6 sezione condensatore <i>See water flow and pressure drop on pg 6 condenser section</i>					
Condensatore / <i>Condenser</i>	(4)		Vedi portate d' acqua e perdite di carico a pg 6 sezione evaporatore <i>See water flow and pressure drop on pg 6 evaporator section</i>					

GRANDEZZA UNITÁ - <i>SIZE</i>			131	141	151	161	191	222
Funzionamento pompa di calore / <i>Heating mode</i>								
Potenzialità termica - <i>Heating capacity</i>	(1)	kW	146	164	181	203	234	261
Potenza assorbita - <i>Absorbed power</i>	(2)	kW	32.7	37	41.2	46.5	52.7	57.2
COP		-	4.46	4.43	4.39	4.37	4.44	4.56
Evaporatore / <i>Evaporator</i>	(3)		vedi portate d'acqua e perdite di carico a pg 7 sezione condensatore <i>See water flow and pressure drop on pg 7 condenser section</i>					
Condensatore / <i>Condenser</i>	(4)		Vedi portate d' acqua e perdite di carico a pg 7 sezione evaporatore <i>See water flow and pressure drop on pg 7 evaporator section</i>					

GRANDEZZA UNITÁ - <i>SIZE</i>			242	282	312	342	382	442	482
Funzionamento pompa di calore / <i>Heating mode</i>									
Potenzialità termica - <i>Heating capacity</i>	(1)	kW	291	322	350	406	464	553	617
Potenza assorbita - <i>Absorbed power</i>	(2)	kW	64.4	72.6	79.7	91	103	114	129
COP		-	4.52	4.44	4.39	4.46	4.50	4.85	4.78
Evaporatore / <i>Evaporator</i>	(3)		vedi portate d'acqua e perdite di carico a pg 8 sezione condensatore <i>See water flow and pressure drop on pg 8 condenser section</i>						
Condensatore / <i>Condenser</i>	(4)		Vedi portate d' acqua e perdite di carico a pg 8 sezione evaporatore <i>See water flow and pressure drop on pg 8 evaporator section</i>						

GRANDEZZA UNITÁ - <i>SIZE</i>			522	582	642	682
Funzionamento pompa di calore / <i>Heating mode</i>						
Potenzialità termica - <i>Heating capacity</i>	(1)	kW	717	802	865	928
Potenza assorbita - <i>Absorbed power</i>	(2)	kW	151	166	181	196
COP		-	4.75	4.83	4.78	4.73
Evaporatore / <i>Evaporator</i>	(3)		vedi portate d'acqua e perdite di carico a pg 9 sezione condensatore <i>See water flow and pressure drop on pg 9 condenser section</i>			
Condensatore / <i>Condenser</i>	(4)		Vedi portate d' acqua e perdite di carico a pg 9 sezione evaporatore <i>See water flow and pressure drop on pg 9 evaporator section</i>			

Note:

- 1) Riscaldamento: condensatore acqua 40° / 45°C - Evaporatore acqua 12 / 7°C
- 2) Solo compressori escluse pompe idrauliche
- 3) In funzionamento pompa di calore diventa "evaporatore" - vedi caratteristiche tecniche sezione "condensatore" a pg 6,7,8
- 4) In funzionamento pompa di calore diventa "condensatore" - vedi caratteristiche tecniche sezione "evaporatore" a pg 6,7,8

Notes:

- 1) Heating mode conditions: user circuit water temperature 40/45°C - Evaporator water temperature 12/7°C
- 2) Compressors only (except pumps)
- 3) It becomes "evaporator" in SCWY...H (heat pump) version. - To see technical features "condenser" section on pg 6,7,8
- 4) It becomes "condenser" in SCWY...H (heat pump) version. - To see technical features "evaporator" section on pg 6,7,8

Tabella tecnica - *Technical data* SCWY-F scambiatori fascio tubiero - *shell and tube exchangers* Versione pompa di calore - *Heat pump version*

GRANDEZZA UNITÁ - SIZE		61	71	81	91	101	121
Funzionamento pompa di calore / Heating mode							
Potenzialità termica - <i>Heating capacity</i>	(1) kW	65.0	75.2	83.1	95.4	111	133
Potenza assorbita - <i>Absorbed power</i>	(2) kW	13.7	16.3	18.1	20.4	24.3	27.8
COP	-	4.74	4.61	4.59	4.68	4.57	4.78
Evaporatore / Evaporator	(3)	vedi portate d'acqua e perdite di carico a pg 10 sezione condensatore <i>See water flow and pressure drop on pg 10 condenser section</i>					
Condensatore / Condenser	(4)	Vedi portate d' acqua e perdite di carico a pg 10 sezione evaporatore <i>See water flow and pressure drop on pg 10 evaporator section</i>					

GRANDEZZA UNITÁ - SIZE		131	141	151	161	191	222
Funzionamento pompa di calore / Heating mode							
Potenzialità termica - <i>Heating capacity</i>	(1) kW	150	168	189	215	237	262
Potenza assorbita - <i>Absorbed power</i>	(2) kW	31.6	35.8	40	45.2	51.2	55.8
COP	-	4.75	4.69	4.73	4.76	4.63	4.70
Evaporatore / Evaporator	(3)	vedi portate d'acqua e perdite di carico a pg 11 sezione condensatore <i>See water flow and pressure drop on pg 11 condenser section</i>					
Condensatore / Condenser	(4)	Vedi portate d' acqua e perdite di carico a pg 11 sezione evaporatore <i>See water flow and pressure drop on pg 11 evaporator section</i>					

GRANDEZZA UNITÁ - SIZE		242	282	312	342	382	442
Funzionamento pompa di calore / Heating mode							
Potenzialità termica - <i>Heating capacity</i>	(1) kW	290	332	364	420	476	542
Potenza assorbita - <i>Absorbed power</i>	(2) kW	63.4	71.3	80.1	91.2	102	116
COP	-	4.57	4.66	4.54	4.61	4.67	4.67
Evaporatore / Evaporator	(3)	vedi portate d'acqua e perdite di carico a pg 12 sezione condensatore <i>See water flow and pressure drop on pg 12 condenser section</i>					
Condensatore / Condenser	(4)	Vedi portate d' acqua e perdite di carico a pg 12 sezione evaporatore <i>See water flow and pressure drop on pag 12 evaporator section</i>					

GRANDEZZA UNITÁ - SIZE		482	522	582	642	682
Funzionamento pompa di calore / Heating mode						
Potenzialità termica - <i>Heating capacity</i>	(1) kW	610	718	774	845	913
Potenza assorbita - <i>Absorbed power</i>	(2) kW	130	153	168	182	198
COP	-	4.69	4.69	4.61	4.64	4.61
Evaporatore / Evaporator	(3)	vedi portate d'acqua e perdite di carico a pg 13 sezione condensatore <i>See water flow and pressure drop on pg 13 condenser section</i>				
Condensatore / Condenser	(4)	Vedi portate d' acqua e perdite di carico a pg 13 sezione evaporatore <i>See water flow and pressure drop on pg 13 evaporator section</i>				

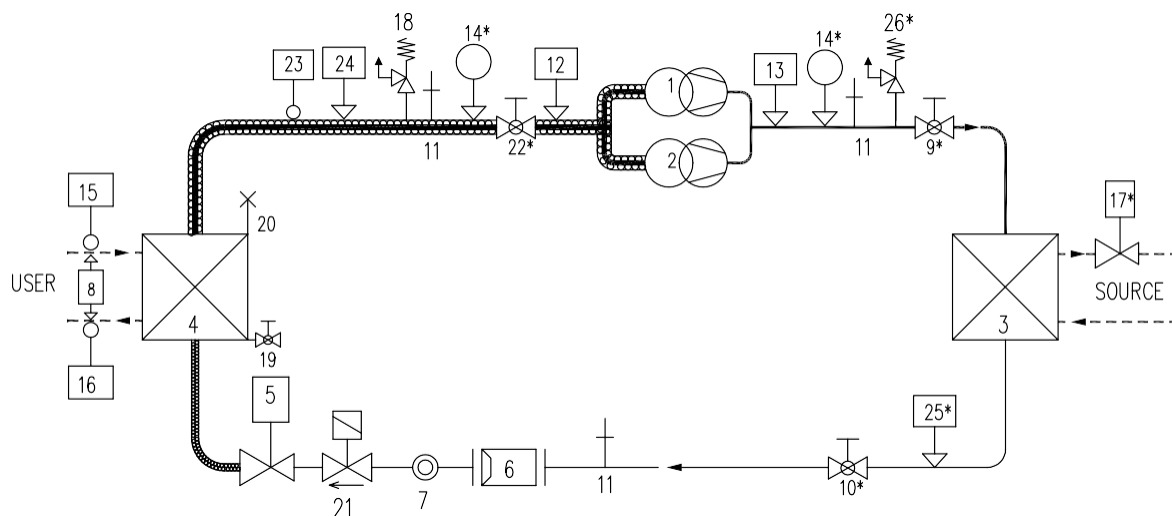
Note:

- 1) Riscaldamento: condensatore acqua 40° / 45°C - Evaporatore acqua 12 / 7°C
- 2) Solo compressori escluse pompe idrauliche
- 3) In funzionamento pompa di calore diventa "evaporatore" - vedi caratteristiche tecniche sezione "condensatore" a pg 6,7,8
- 4) In funzionamento pompa di calore diventa "condensatore" - vedi caratteristiche tecniche sezione "evaporatore" a pg 6,7,8

Notes:

- 1) Heating mode conditions: user circuit water temperature 40/45°C - Evaporator water temperature 12/7°C
- 2) Compressors only (except pumps)
- 3) It becomes "evaporator" in SCWY...H (heat pump) version. - To see technical features "condenser" section on pg 6,7,8
- 4) It becomes "condenser" in SCWY...H (heat pump) version. - To see technical features "evaporator" section on pg 6,7,8

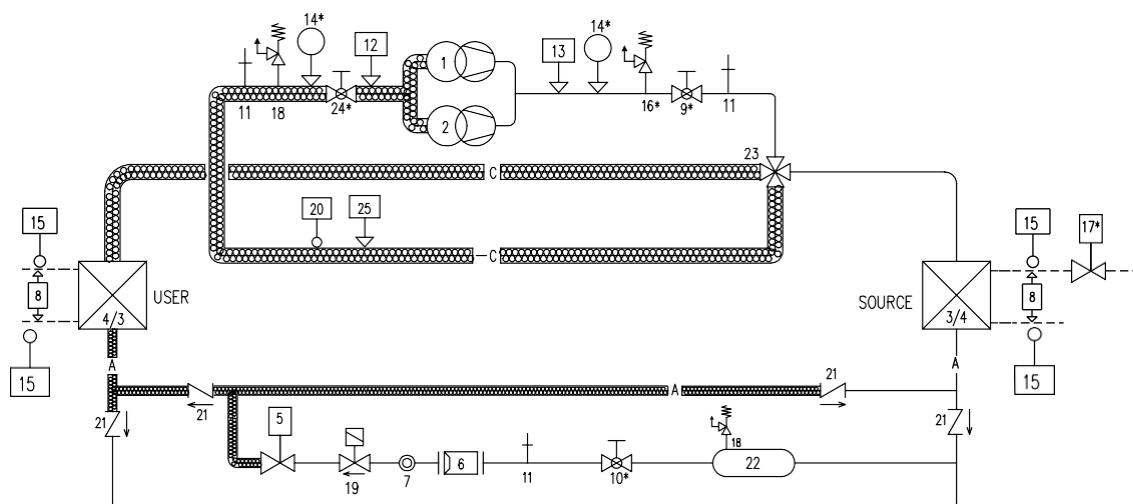
Circuito Frigo solo freddo SCWY - Refrigerant Circuit only cooling SCWY



- 1/2 = Compressori - Compressors
- 3 = Condensatore - Condenser
- 4 = Evaporatore - Evaporator
- 5 = Valvola di espansione elettronica - Electronic expansion valve
- 6 = Filtro refrigerante - Refrigerant filter
- 7 = Indicatore di liquido - Sight glass
- 8 = Pressostato differenziale - Differential pressure switch
- 9 = Rubinetto linea mandata* - Discharge line shut-off valve*
- 10 = Rubinetto linea liquido* - Liquid line shut-off valve*
- 11 = Valvola di servizio - Schrader service valve
- 12 = Pressostato bassa pressione - Low pressure switch
- 13 = Pressostato alta pressione - High pressure switch
- 14 = Manometri* - Refrigerant gauges*
- 15 = Sonda di temperatura - Temperature probe

- 16 = Sonda antigelo - Probe antifreeze
- 17 = Valvola pressostatica* - Water pressure valve*
- 18 = Valvola di sicurezza - Safety valve
- 19 = Valvola di carico/scarico - Drain/Fill up valve
- 20 = Valvola di sfogo aria - Relief valve
- 21 = Valvola solenoide - Solenoid valve
- 22 = Rubinetto linea aspirazione* - Suction line shut-off valve*
- 23 = Sonda temperatura valvola espansione elettronica - Temperature probe for the expansion valve
- 24 = Sonda pressione valvola di espansione - Pressure probe for the expansion valve
- 25 = Sonda pressione* - Pressure probe*
- 26 = Valvola di sicurezza (inclusa dal mod. 151)* - Safety valve (including from the mod.151)*

Circuito frigo pompa di calore SCWY-H - Heat pump refrigerant circuit SCWY-H

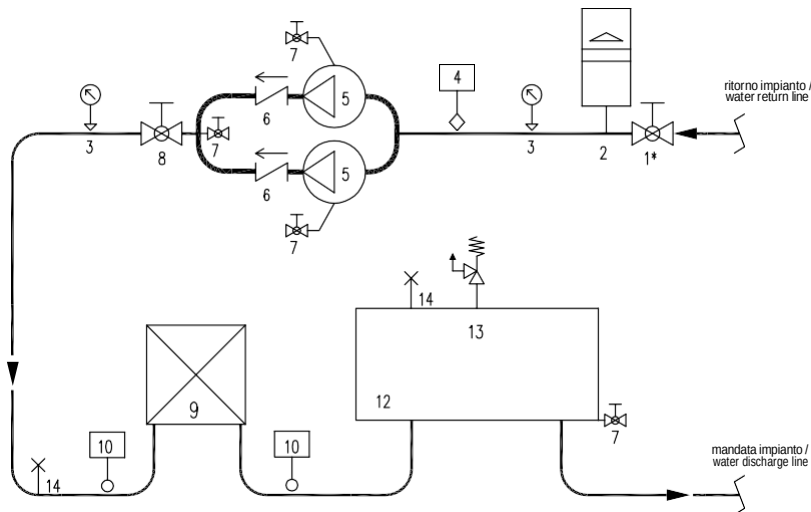


- 1/2 = Compressori - Compressors
- 3/4 = Condensatore/Evaporatore - Condenser/Evaporator
- 4/3 = Evaporatore/Condensatore - Evaporator/Condenser
- 5 = Valvola di espansione elettronica - Electronic expansion valve
- 6 = Filtro refrigerante - Refrigerant filter
- 7 = Indicatore di liquido - Sight glass
- 8 = Pressostato differenziale - Differential pressure switch
- 9 = Rubinetto linea mandata* - Discharge line shut-off valve*
- 10 = Rubinetto linea liquido* - Liquid line shut-off valve*
- 11 = Valvola di servizio - Schrader service valve
- 12 = Pressostato bassa pressione - Low pressure switch
- 13 = Pressostato alta pressione - High pressure switch
- 14 = Manometri* - Refrigerant gauges*

- 15 = Sonda di temperatura - Temperature probe
- 16 = Valvola di sicurezza (inclusa dal mod. 151) - Safety valve (including from the mod.151)
- 17 = Valvola pressostatica* - Water pressure valve*
- 18 = Valvola di sicurezza - Safety valve
- 19 = Valvola solenoide - Solenoid valve
- 20 = Sonda temperatura valvola espansione elettronica - Temperature probe for the expansion valve
- 21 = Valvola di ritegno - Check valve
- 22 = Ricevitore di liquido - Liquid receiver
- 23 = Valvola 4 vie - 4way valve
- 24 = Rubinetto linea aspirazione* - Suction line shut-off valve*
- 25 = Sonda pressione valvola di espansione - Pressure probe for the expansion valve

*I componenti tratteggiati sono opzionali - The outlined components are optional

Circuito idraulico (versione PAC2) - Hydraulic circuit (PAC2 version)



- 1 = Valvola di intercettazione* - Shut-off valve*
- 2 = Vaso di espansione - Expansion vessel
- 3 = Manometri acqua - Water gauges
- 4 = Flussostato - Flowswitch
- 5 = Elettropompa - Pump
- 6 = Valvola di ritegno (solo con PAC2)
Check valve (only with PAC2)
- 7 = Valvola di carico/scarico - Drain/ fill up valve
- 8 = Valvola di taratura - Setting valve
- 9 = Evaporatore - Evaporator
- 10 = Sonda di temperatura - Temperature probe
- 12 = Serbatoio di accumulo (disponibile solo con evap. fascio tubiero)
Tank (available only S&T evaporator)
- 13 = Valvola di sicurezza - Safety valve
- 14 = Valvola sfogo aria - Bleed valve

* I componenti tratteggiati sono opzionali
The outlined components are optional

in caso di utilizzo di miscele glicolate > 30° contattare sede
In case of glycol mix > 30% contact factory

PAC 1: 1 pompa idraulica - 1 pump / PAC 2: 2 pompe idrauliche - 2 pumps

LIMITI DI FUNZIONAMENTO - OPERATING RANGE

TEMP. INGRESSO ACQUA EVAPORATORE - INLET WATER TEMP. EVAPORATOR	Max °C	20
	Min °C	-8
TEMP. USCITA ACQUA EVAPORATORE - OUTLET WATER TEMP. EVAPORATOR	Max °C	-10
	Min °C	15
TEMP. INGRESSO CONDENSATORE - INLET WATER TEMP. CONDENSER	Max °C	45
	Min °C	10
TEMP. USCITA CONDENSATORE - OUTLET WATER TEMP. CONDENSER	Max °C	50
	Min °C	25

COEFFICIENTI CORRETTIVI DELLE PRESTAZIONI PER MISCELE GLICOLATE - CORRECTION FACTORS

Percentuale di glicole in peso - Ethylene glycol percentage by weight (%)	10	20	30	40	50
Temperatura di congelamento - Freezing point (°C)	-3,6	-8,7	-15,3	-23,5	-35,5
Resa frigorifera - Cooling capacity	0,986	0,980	0,973	0,966	0,960
Potenza assorbita - Power input	1,000	0,995	0,990	0,985	0,975
Portata miscela - Mixture flow	1,023	1,054	1,092	1,140	1,200
Perdita di carico - Pressure drop	1,061	1,114	1,190	1,244	1,310

DIMENSIONI UNITÀ PIASTRE - DIMENSIONS PLATE TO PLATE UNITS

Fig. A

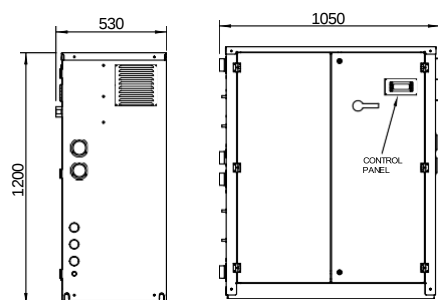


Fig. B

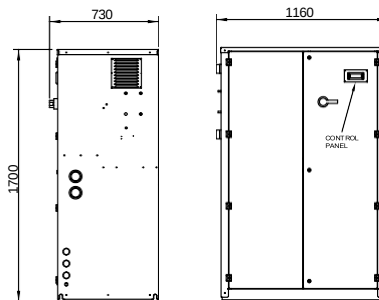


Fig. C

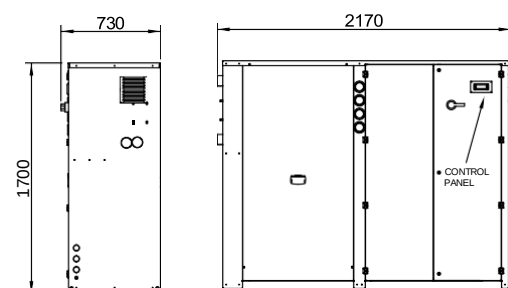
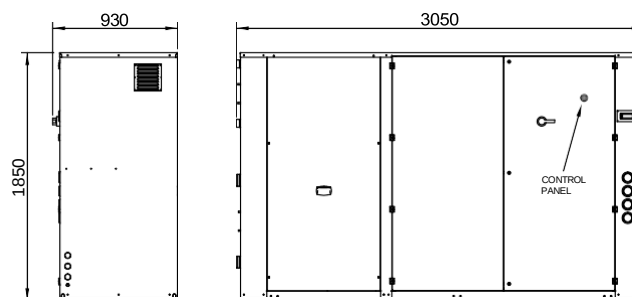


Fig. D



PESI - WEIGHTS (Kg)

VERSIONI / VERSIONS	STD									LN								
Mod.	61	71	81	91	101	121	131	141	151	61	71	81	91	101	121	131	141	151
Figura/Picture	A			B						A			B					
Peso di trasporto Transport weight	400	450	495	530	650	700	765	845	950	420	470	515	550	670	730	795	875	1030
Peso in funzione Operation weight	Sommare il peso di trasporto al volume d'acqua totale degli scambiatori (evaporatore e condensatore relativi al modello selezionato) Transport weight added to total water volume (evaporator and condenser regard to the selected model)									Sommare il peso di trasporto al volume d'acqua totale degli scambiatori (evaporatore e condensatore relativi al modello selezionato) Transport weight added to total water volume (evaporator and condenser regard to the selected model)								

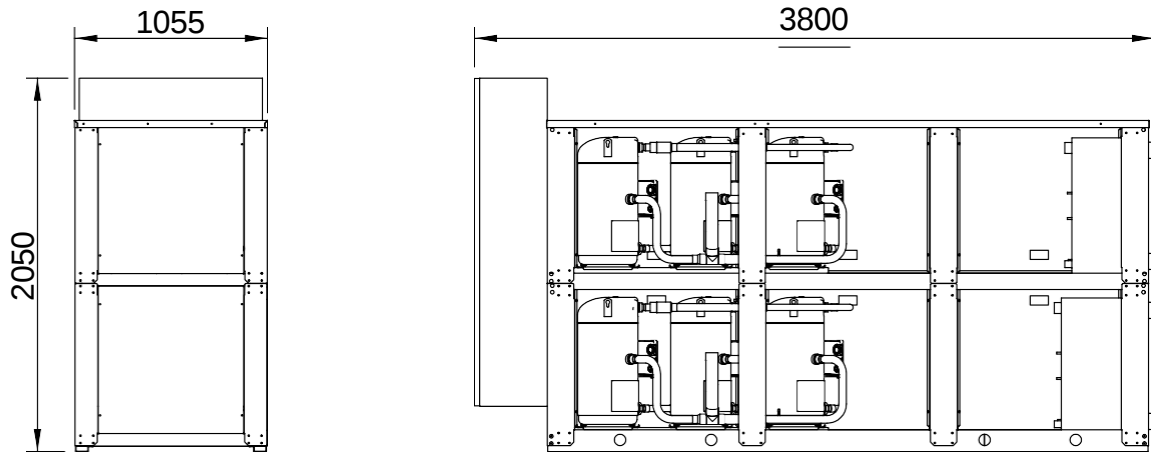
Altre versioni disponibili su richiesta / Other versions available on request

VERSIONI / VERSIONS	STD										LN									
Mod.	161	191	222	242	282	312	342	382	442	482	161	191	222	242	282	312	342	382	442	482
Figura/Picture	B		C				D				B		C				D			
Peso di trasporto Transport weight	1100	1250	1480	1530	1680	1720	1880	1980	2150	2350	1200	1350	1580	1630	1780	1820	1980	2080	2250	2450
Peso in funzione Operation weight	Sommare il peso di trasporto al volume d'acqua totale degli scambiatori (evaporatore e condensatore relativi al modello selezionato) Transport weight added to total water volume (evaporator and condenser regard to the selected model)										Sommare il peso di trasporto al volume d'acqua totale degli scambiatori (evaporatore e condensatore relativi al modello selezionato) Transport weight added to total water volume (evaporator and condenser regard to the selected model)									

Altre versioni disponibili su richiesta / Other versions available on request

DIMENSIONI UNITÁ PIASTRE - DIMENSIONS PLATE TO PLATE UNITS

Fig. E



PESI - WEIGHTS (Kg)

VERSIONI / VERSIONS	STD				LN			
Mod.	522	582	642	682	522	582	642	682
Figura/Picture	E				E			
Peso di trasporto Transport weight	3080	3260	3450	3570	3230	3410	3600	3720
Peso in funzione Operation weight	Sommare il peso di trasporto al volume d'acqua totale degli scambiatori (evaporatore e condensatore relativi al modello selezionato) <i>Transport weight added to total water volume (evaporator and condenser regard to the selected model)</i>							

Altre versioni disponibili su richiesta / Other versions available on request

Nota per SCW-P: in versione pompa di calore considerare un upgrade di carpenteria. In caso di pompe a bordo contattare sede.
Note for SCW-P: for heat pump version the upgrade frame is necessary. Contact factory for pumps on board

DIMENSIONI UNITÁ A FASCIO TUBIERO - DIMENSIONS SHELL AND TUBE

Fig. A

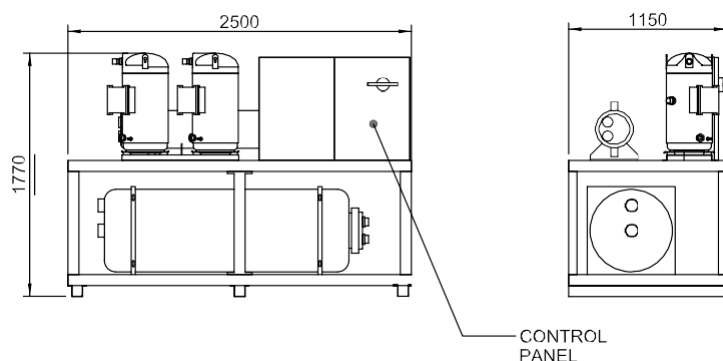
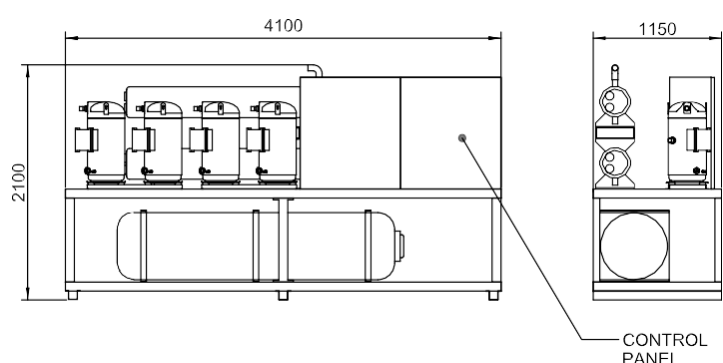


Fig. B



PESI - WEIGHTS (Kg)

VERSIONI / VERSIONS	STD									LN								
Mod.	61	71	81	91	101	121	131	141	151	61	71	81	91	101	121	131	141	151
Figura/Picture	A									A								
Peso di trasporto Transport weight	510	580	600	680	860	910	1060	1140	1210	550	630	650	730	910	960	1110	1190	1260
Peso in funzione Weight in operation	Sommare il peso di trasporto al volume d'acqua totale degli scambiatori (evaporatore e condensatore relativi al modello selezionato) Transport weight added to total water volume (evaporator and condenser related to the selected model)									Sommare il peso di trasporto al volume d'acqua totale degli scambiatori (evaporatore e condensatore relativi al modello selezionato) Transport weight added to total water volume (evaporator and condenser related to the selected model)								

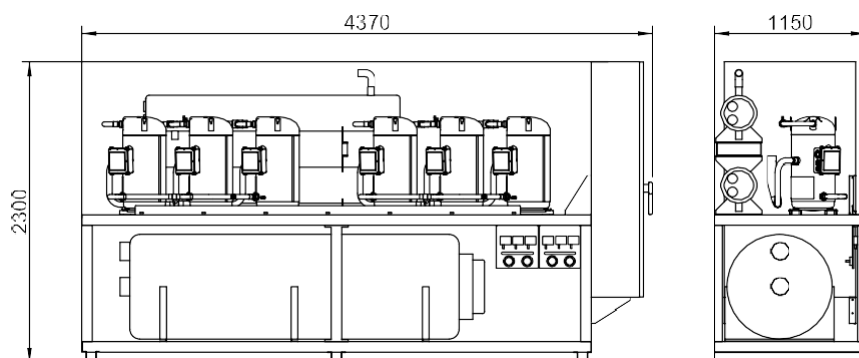
Altre versioni disponibili su richiesta / Other versions available on request

VERSIONI / VERSIONS	STD										LN									
Mod.	161	191	222	242	282	312	342	382	442	482	161	191	222	242	282	312	342	382	442	482
Figura/Picture	A		B								A		B							
Peso di trasporto Transport weight	1320	1400	1650	1780	1900	2050	2130	2200	2380	2600	1370	Su richiesta / On request								
Peso in funzione Weight in operation	Sommare il peso di trasporto al volume d'acqua totale degli scambiatori (evaporatore e condensatore relativi al modello selezionato) Transport weight added to total water volume (evaporator and condenser related to the selected model)										Sommare il peso di trasporto al volume d'acqua totale degli scambiatori (evaporatore e condensatore relativi al modello selezionato) Transport weight added to total water volume (evaporator and condenser related to the selected model)									

Altre versioni disponibili su richiesta / Other versions available on request

DIMENSIONI UNITÁ A FASCIO TUBIERO - DIMENSIONS SHELL AND TUBE

Fig. C



PESI - WEIGHTS (Kg)

VERSIONI / VERSIONS	STD				LN			
Mod.	522	582	642	682	522	582	642	682
Figura/Picture	C				C			
Peso di trasporto Transport weight	3160	3320	3480	3570	Su richiesta / On request			
Peso in funzione Weight in operation	Sommare il peso di trasporto al volume d'acqua totale degli scambiatori (evaporatore e condensatore relativi al modello selezionato) Transport weight added to total water volume (evaporator and condenser related to the selected model)							

Altre versioni disponibili su richiesta / Other versions available on request

Il livello di pressione sonora è rilevato in campo libero a 1 m di distanza e a 1,5 m d'altezza lato vano compressori con la macchina funzionante a pieno carico senza gruppo idronico. Questo valore può variare secondo il luogo di installazione ed ha una tolleranza di +/-3 dB(A) secondo ISO 3744.
*Free field sound pressure level taken at 1 m from the unit and 1,5 m from its base, compressors side and full operating unit without hydronic module.
 The sound pressure level may change according to the various installation and has a +/- 3 dB(A) tolerance according to ISO 3744.*

I dati tecnici e dimensionali riportati nella presente documentazione non sono impegnativi. ACM Kälte Klima si riserva la facoltà di apportare in qualsiasi momento tutte le modifiche ritenute necessarie per il miglioramento del prodotto.

The technical data in this booklet are not binding. ACM Kälte Klima reserves the right to make changes without prior notice.

Dettagli - Details



Circuito refrigerante - Refrigerant circuit



Multiscroll - Multiscroll



Unità - Unit



Manometri circuito frigorifero - Refrigerant gauges



Scambiatori a fascio tubiero
Shell and Tube exchangers



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