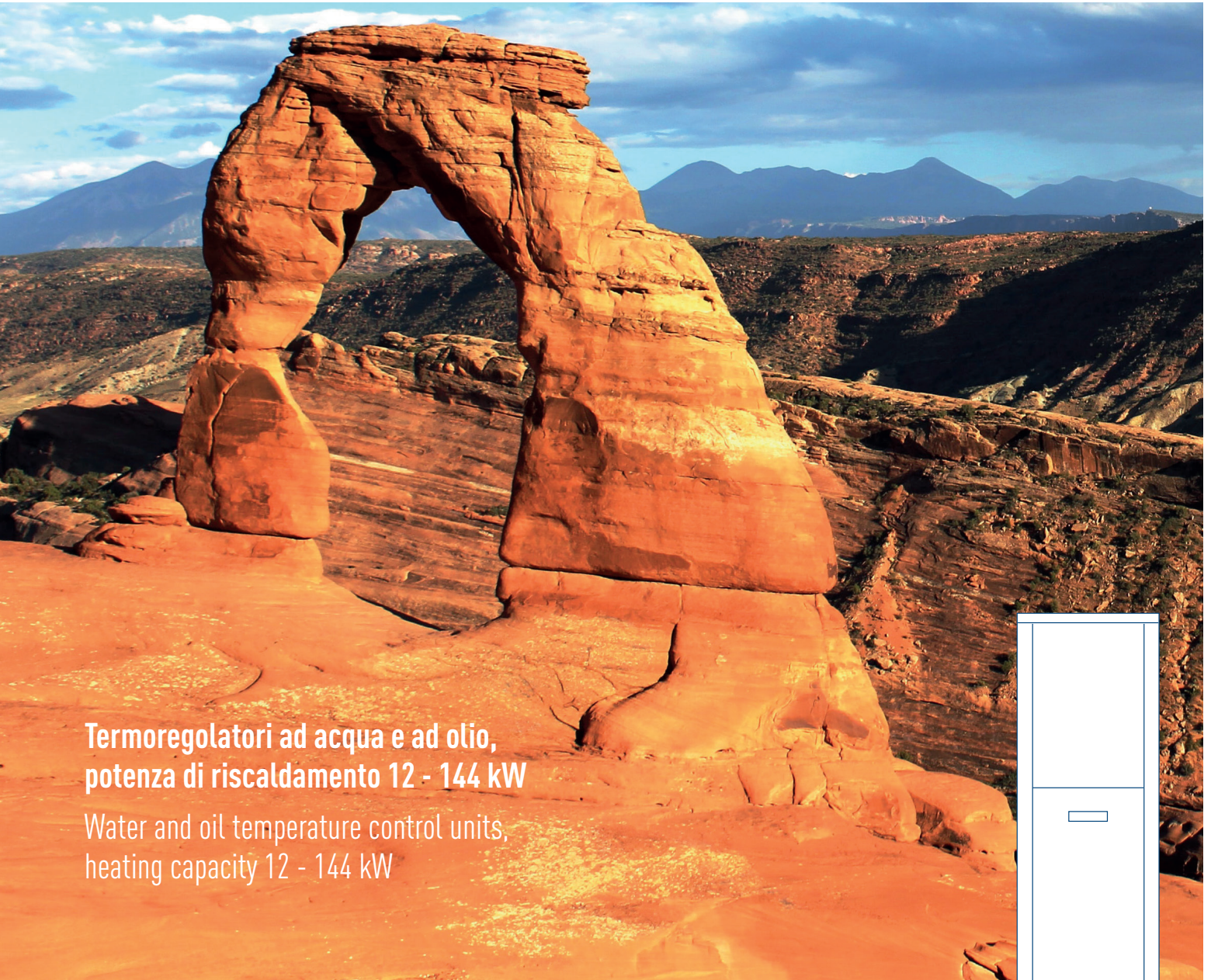


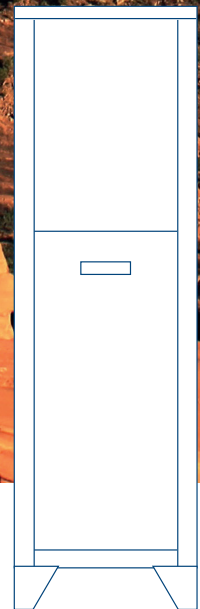


TEMPERATURE CONTROL UNITS



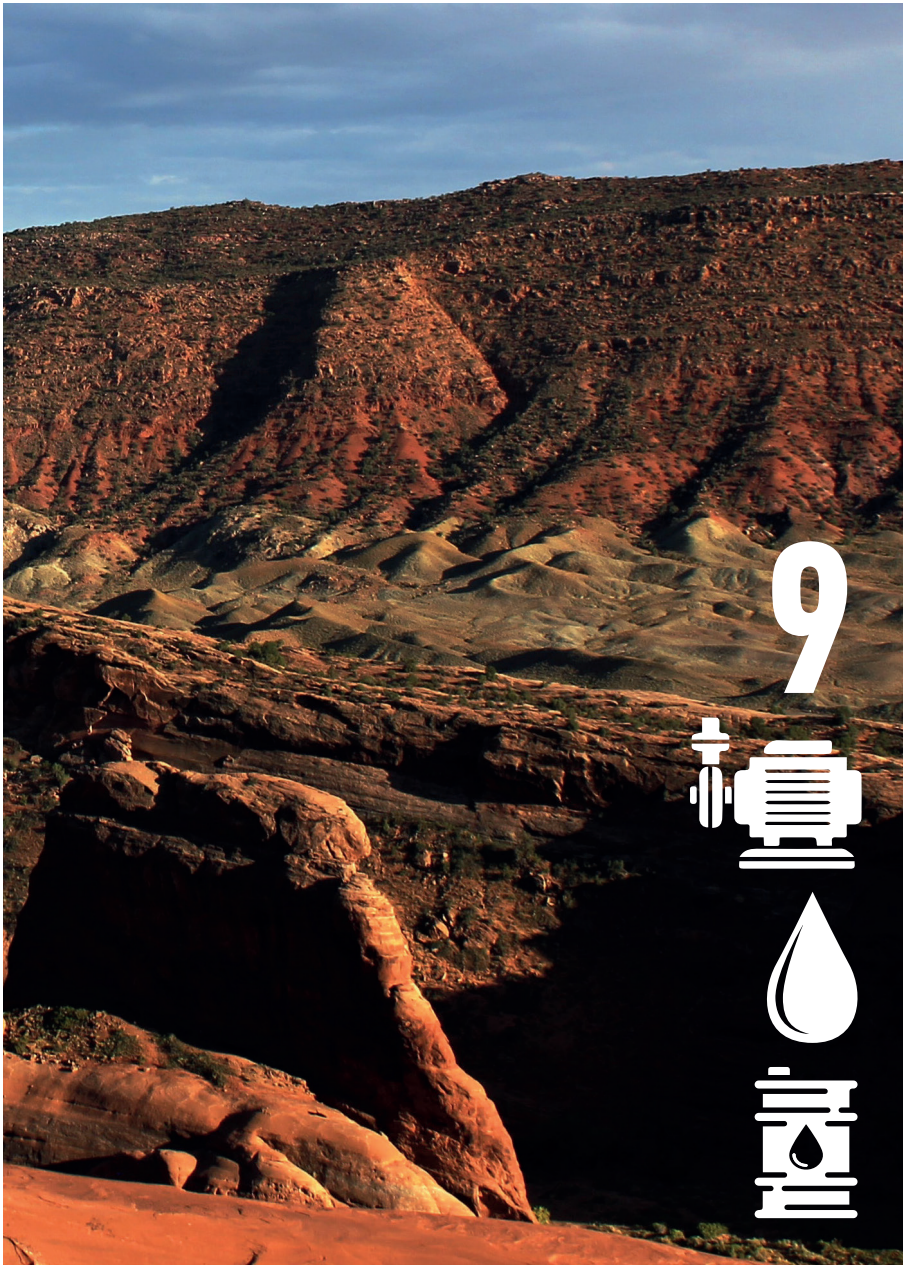
Termoregolatori ad acqua e ad olio, potenza di riscaldamento 12 - 144 kW

Water and oil temperature control units,
heating capacity 12 - 144 kW



Le centraline di termoregolazione **ET** rappresentano la soluzione migliore per una corretta termoregolazione del processo. I modelli ad acqua sono dotati di pompe centrifughe a bassa rumorosità, mentre i modelli ad olio possono essere equipaggiati anche con pompe a trascinamento magnetico.

ET temperature control units are the best solution for the correct control of process temperature. Water models are fitted with low noise, centrifugal pumps, while oil units can be also supplied with magnetic drive pumps.

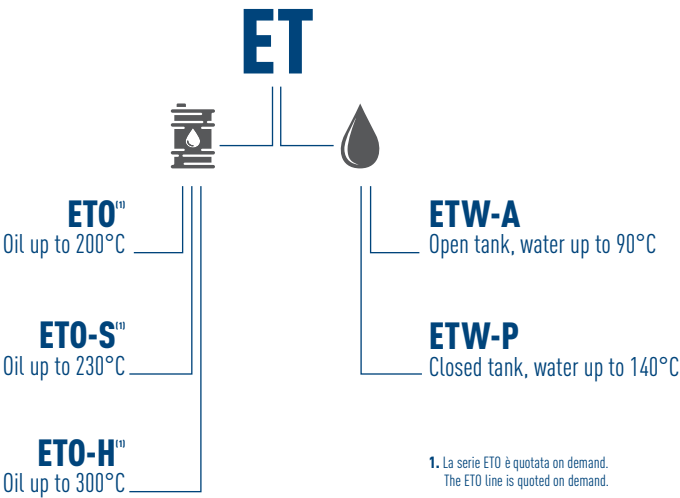


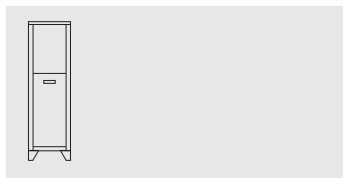
DIFFERENT
SIZES

3 PUMP
SIZES

WATER TCU
UP TO +140°C

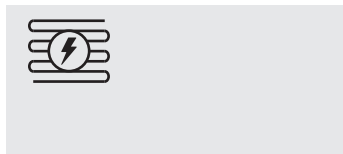
OIL TCU
UP TO +300°C





STRUTTURA

Struttura autoportante con pannelli laterali asportabili in acciaio verniciato.



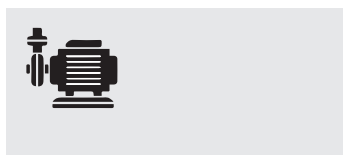
RESISTENZA

ETW/ETO/ETO-S: a flusso forzato.
ETO-H: resistenza corazzata.



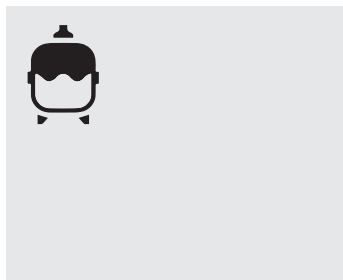
SCAMBIATORE

A piastre (optional).



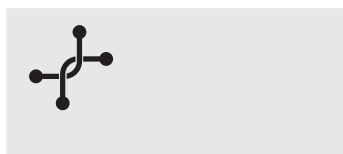
POMPA

ETW/ETO/ETO-S: centrifuga a bassa rumorosità.
ETO-H: a trascinamento magnetico.



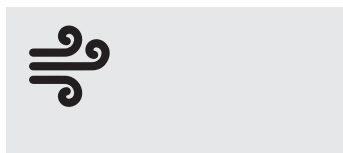
VASO ESPANSIONE

ETW-A: vaso espansione aperto in acciaio inox, capacità 50 lt.
ETW-P: vaso espansione chiuso in acciaio galvanizzato, capacità 24 lt.
ETO/ETO-S/ETO-H: vaso espansione aperto in acciaio inox, capacità 12/50 lt.



BY-PASS

ETW: by-pass idraulico interno di sicurezza.



SCARICO ARIA

ETW: automatico.
ETO: automatico al riempimento con elettrovalvola.



CONTROLLO

Gefran 650 con display digitale e funzione PID sul riscaldamento e sul raffreddamento (se fornito).

STRUCTURE

Self-standing structure with removable side-panels made of painted steel.

HEATER

ETW/ETO/ETO-S: forced flow heater.
ETO-H: armored heater.

HEAT EXCHANGER

Plate-type (optional).

PUMP

ETW/ETO/ETO-S: low noise, centrifugal pump.
ETO-H: magnetic drive pump.

EXPANSION TANK

ETW-A: stainless steel, open expansion tank, capacity 50 lt.
ETW-P: galvanized steel, closed expansion tank, capacity 24 lt.
ETO/ETO-S/ETO-H: stainless steel, open expansion tank, capacity 12/50 lt.

BY-PASS

ETW: internal, hydraulic safety by-pass.

AIR BREATHER

ETW: automatic.
ETO: automatic air overflow on filling by solenoid valve.

CONTROL

Gefran 650 control system with digital display with PID function on heating and cooling (if supplied).



ETW-A				1512	1518	1524	2524	
HEATING SECTION	Potenza di riscaldamento	Heating capacity	kW		12	18	24	24
	Tipo	Type	-		Elettrico - Electric			
COOLING SECTION	Potenza di raffreddamento ⁽⁵⁾	Cooling capacity ⁽⁵⁾	kW		18 - 52 - 105 - 157			
			kCal/h		15.000 - 45.000 - 90.000 - 135.000			
	Fluido	Fluid	-		Acqua - Water			
	Campo d'impiego	Temperature range	°C		+20 / +90			
HYDRAULIC SECTION	Pompa	Pump	kW		1,50			2,20
			lt/min ⁽⁴⁾		100			200
			Bar		3,5			3,0
	Vaso di accumulo	Storage tank	lt		50, open type			
	Conessioni idrauliche	Hydraulic connections	ø P IN/OUT ⁽¹⁾		1"1/2 - 1"			2" - 1"1/4
			ø R ⁽²⁾		1/2"			
ø S ⁽³⁾			1"					
GENERAL DATA	Precisione temperatura	Temperature accuracy	°C					
ELECTRIC SECTION	Potenza totale installata	Total installed power	kW		13,5	19,5	25,5	26,2
	Tensione	Voltage	V/Ph/Hz		400/3/50			
	Ausiliari	Auxiliaries	V		110			
SIZES & WEIGHT	Ingombri	Sizes	mm	A	500			500
				B	1000			1100
				C	1300			1500
	Peso netto	Net weight	kg		140			160

1. Processo

2. Raffreddamento

3. Scarico

4. Valore a centro curva

5. Optional

1. Process

2. Cooling

3. Discharge

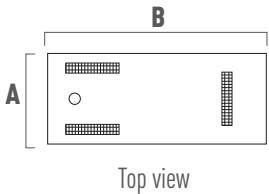
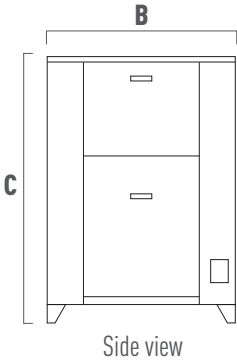
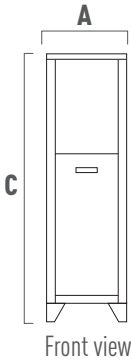
4. Centre of curve value

5. Optional

TEMPERATURE CONTROL UNITS



2536	2548	2572	3572	3596	35120	35144
36	48	72	72	96	120	144
Elettrico - Electric						
18 - 52 - 105 - 157						
15.000 - 45.000 - 90.000 - 135.000						
Acqua - Water						
+20 / +90						
2,20			4,00			
200			300			
3,0			3,5			
50, open type						
2" - 1"1/4			2"1/2 - 1"1/2			
1/2"						
1"						
36,2	50,2	74,2	76,0	100,0	124,0	148,0
400/3/50						
110						
500			500			
1100			1200			
1500			1700			
160			200			



ETW-P					1512	1518	1524	2524
HEATING SECTION	Potenza di riscaldamento	Heating capacity	kW		12	18	24	24
	Tipo	Type	-		Elettrico - Electric			
COOLING SECTION	Potenza di raffreddamento ⁽⁵⁾	Cooling capacity ⁽⁵⁾	kW		18 - 52 - 105 - 157			
			kCal/h		15.000 - 45.000 - 90.000 - 135.000			
	Fluido	Fluid	-		Acqua - Water			
	Campo d'impiego	Temperature range	°C		+20 / +140			
HYDRAULIC SECTION	Pompa	Pump	kW		1,50			2,20
			lt/min ⁽⁴⁾		100			200
			Bar		3,5			3,0
	Vaso di accumulo	Storage tank	lt		24, under pressure			
	Attacchi idraulici	Hydraulic connections	ø P IN/OUT ⁽¹⁾		1"1/2 - 1"			2" - 1"1/4
			ø R ⁽²⁾		1/2"			
ø S ⁽³⁾			1"					
ELECTRIC SECTION	Potenza totale installata	Total installed power	kW		13,5	19,5	25,5	26,2
	Tensione	Voltage	V/Ph/Hz		400/3/50			
	Ausiliari	Auxiliaries	V		110			
SIZES & WEIGHT	Ingombri	Sizes	mm	A	500			500
				B	1000			1000
				C	1300			1500
	Peso netto	Net weight	kg		140			160

1. Processo

2. Raffreddamento

3. Scarico

4. Valore a centro curva

5. Optional

1. Process

2. Cooling

3. Discharge

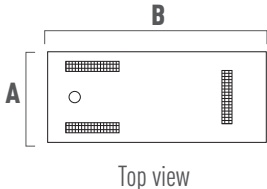
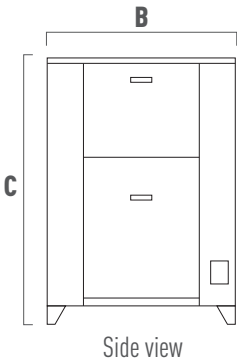
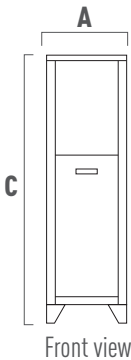
4. Centre of curve value

5. Optional

TEMPERATURE CONTROL UNITS



2536	2548	2572	3572	3596	35120	35144
36	48	72	72	96	120	144
Elettrico - Electric						
18 - 52 - 105 - 157						
15.000 - 45.000 - 90.000 - 135.000						
Acqua - Water						
+20 / +140						
2,20			4,00			
200			300			
3,0			3,5			
24, under pressure						
2" - 1"1/4			2"1/2 - 1"1/2			
1/2"						
1"						
36,2	50,2	74,2	76,0	100,0	124,0	148,0
400/3/50						
110						
500			500			
1000			1200			
1500			1700			
160			200			



ETO					1512	1518	1524	2524
HEATING SECTION	Potenza di riscaldamento	Heating capacity	kW		12	18	24	24
	Tipo	Type	-		Elettrico - Electric			
	Parzializzazione	Partialization	%		-			
	Controllo	Control	-		PID Contattore - PID Contactor			
COOLING SECTION	Potenza di raffreddamento ⁽⁵⁾	Cooling capacity ⁽⁵⁾	kW		18 - 157			
			kCal/h		15.000 - 135.000			
	Fluido	Fluid	-		Olio - Oil			
	Campo d'impiego	Temperature range	°C		÷30/÷200			
	Controllo	Control	-		PID valvola a 3 vie – PID 3 way valve			
HYDRAULIC SECTION	Pompa	Pump	kW		1,50			2,20
			lt/min ⁽⁴⁾		100			200
			Bar		3,0			3,0
	Vaso di accumulo	Storage tank	lt		60			
	Attacchi idraulici	Hydraulic connections	ø P IN/OUT ⁽¹⁾		1"1/2 - 1"			2" - 1"1/4
			ø R ⁽²⁾		1" - 1"1/4			
ø S ⁽³⁾			1/2"					
GENERAL DATA	Precisione temperatura	Temperature accuracy	°C		+/- 1°C			
ELECTRIC SECTION	Potenza totale installata	Total installed power	kW		13,5	19,5	25,5	26,5
	Tensione	Voltage	V/Ph/Hz		400/3/50			
	Ausiliari	Auxiliaries	V		110			
SIZES & WEIGHT	Ingombri	Sizes	mm	A	500			500
				B	110			1200
				C	1.500			1700
	Peso netto	Net weight	kg		180			210

1. Processo

2. Raffreddamento

3. Scarico

4. Valore a centro curva

5. Optional

1. Process

2. Cooling

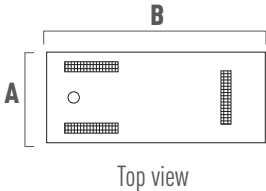
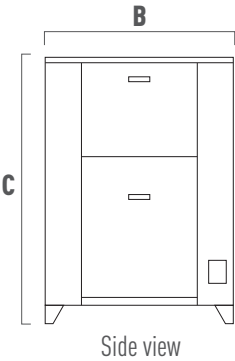
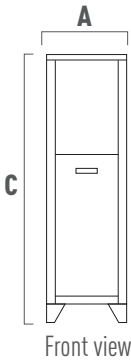
3. Discharge

4. Centre of curve value

5. Optional



2536	2548	2572	3572	3596	35120	35144
2*18	2*24	3*24	3*24	4*24	5*24	6*24
Elettrico - Electric						
Optional						
PID Contattore - PID Contactor						
18 - 157						
15.000 - 135.000						
Olio - Oil						
÷30/÷200						
PID valvola a 3 vie – PID 3 way valve						
2,20			4,00			
200			300			
3,0			3,0			
60						
2" - 1"1/4			2"1/2 - 2"			
1" - 1"1/4						
1/2"						
+/- 1°C						
38,2	50,2	74,2	76,0	100,0	124,0	148,0
400/3/50						
110						
500		700			800	
1200		1220			1570	
1700		2100			2100	
210		350			420	



ETO-S				1512	1518	1524	2524	
HEATING SECTION	Potenza di riscaldamento	Heating capacity	kW		12	18	24	24
	Tipo	Type	-		Elettrico - Electric			
	Parzializzazione	Partialization	%		-			
	Controllo	Control	-		PID Contattore - PID Contactor			
COOLING SECTION	Potenza di raffreddamento ⁽⁵⁾	Cooling capacity ⁽⁵⁾	kW		18 – 52 – 105 – 157			
			kCal/h		15.000 – 45.000 – 90.000 – 135.000			
	Fluido	Fluid	-		Olio - Oil			
	Campo d'impiego	Temperature range	°C		÷30/÷230			
	Controllo	Control	-		PID valvola a 3 vie – PID 3 way valve			
HYDRAULIC SECTION	Pompa	Pump	kW		1,50			2,20
			lt/min ⁽⁴⁾		100			200
			Bar		3,5			3,0
	Vaso di accumulo	Storage tank	lt		60			
	Attacchi idraulici	Hydraulic connections	ø P IN/OUT ⁽¹⁾		1"1/2 - 1"			2" - 1"1/4
			ø R ⁽²⁾		1"1/4 - 1"			
			ø S ⁽³⁾		1/2"			
GENERAL DATA	Precisione temperatura	Temperature accuracy	°C		+/- 1°C			
ELECTRIC SECTION	Potenza totale installata	Total installed power	kW		13,5	19,5	25,5	26,5
	Tensione	Voltage	V/Ph/Hz		400/3/50			
	Ausiliari	Auxiliaries	V		110			
SIZES & WEIGHT	Ingombri	Sizes	mm	A	500			500
				B	110			1200
				C	1500			1700
	Peso netto	Net weight	kg		180			210

1. Processo

2. Raffreddamento

3. Scarico

4. Valore a centro curva

5. Optional

1. Process

2. Cooling

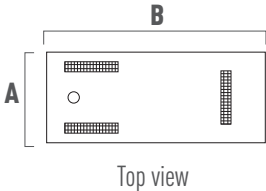
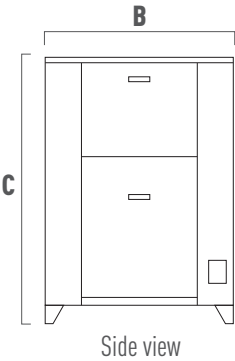
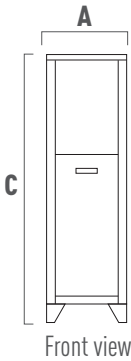
3. Discharge

4. Centre of curve value

5. Optional



2536	2548	2572	3572	3596	35120	35144
2*18	2*24	3*24	3*24	4*24	5*24	6*24
Elettrico - Electric						
Optional						
PID Contattore - PID Contactor						
18 - 52 - 105 - 157						
15.000 – 45.000 – 90.000 – 135.000						
Olio - Oil						
÷30/÷230						
PID valvola a 3 vie – PID 3 way valve						
2,20			4,00			
200			300			
3,0			3,5			
60						
2" - 1"1/4			2"1/2 - 1"1/2			
1"1/4 - 1"						
1/2"						
+/- 1°C						
38,2	50,2	74,2	76,0	100,0	124,0	148,0
400/3/50						
110						
500		700			800	
1200		1220			1570	
1700		2100			2100	
210		350			420	



ETO-H					1512	1518	1524	2524
HEATING SECTION	Potenza di riscaldamento	Heating capacity	kW		12	18	24	24
	Tipo	Type	-		Elettrico - Electric			
	Parzializzazione	Partialization	%		-			
	Controllo	Control	-		PID SSR			
COOLING SECTION	Potenza di raffreddamento ⁽⁵⁾	Cooling capacity ⁽⁵⁾	kW		18 - 157			
			kCal/h		15.000 - 135.000			
	Fluido	Fluid	-		Olio - Oil			
	Campo d'impiego	Temperature range	°C		÷30/÷300			
	Controllo	Control	-		PID valvola a 3 vie – PID 3 way valve			
HYDRAULIC SECTION	Pompa	Pump	kW		3,00			4,00
			lt/min ⁽⁴⁾		100			200
			Bar		3,4			3,4
	Vaso di accumulo	Storage tank	lt		60			
	Attacchi idraulici	Hydraulic connections	ø P IN/OUT ⁽¹⁾		DN 25			DN 40
			ø R ⁽²⁾		1"1/4 - 1"			
			ø S ⁽³⁾		1/2"			
GENERAL DATA	Precisione temperatura	Temperature accuracy	°C		+/- 1°C			
ELECTRIC SECTION	Potenza totale installata	Total installed power	kW		15,0	21,0	27,0	28,0
	Tensione	Voltage	V/Ph/Hz		400/3/50			
	Ausiliari	Auxiliaries	V		24 Vdc			
SIZES & WEIGHT	Ingombri	Sizes	mm	A	500			500
				B	1200			1200
				C	1700			1700
	Peso netto	Net weight	kg		210			250

1. Processo

2. Raffreddamento

3. Scarico

4. Valore a centro curva

5. Optional

1. Process

2. Cooling

3. Discharge

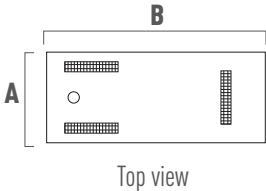
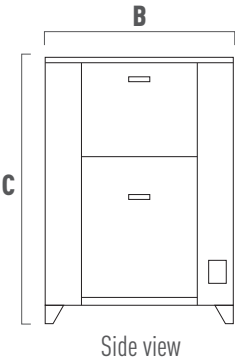
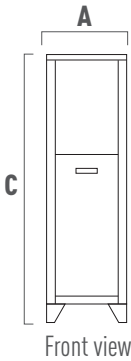
4. Centre of curve value

5. Optional

TEMPERATURE CONTROL UNITS



2536	2548	2575	3575	35100	35125	35150
2*18	2*24	3*25	3*25	4*25	5*25	6*25
Elettrico - Electric						
Optional						
PID SSR						
18 - 157						
15.000 - 135.000						
Olio - Oil						
÷30/÷300						
PID valvola a 3 vie – PID 3 way valve						
4,00			7,50			
200			300			
3,4			3,4			
60						
DN 40			DN 65			
1"1/4 - 1"						
1/2"						
+/- 1°C						
40,0	52,0	79,0	82,5	107,5	132,5	157,5
400/3/50						
24 Vdc						
500		700			800	
1200		1220			1570	
1700		2100			2100	
250		350			480	



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