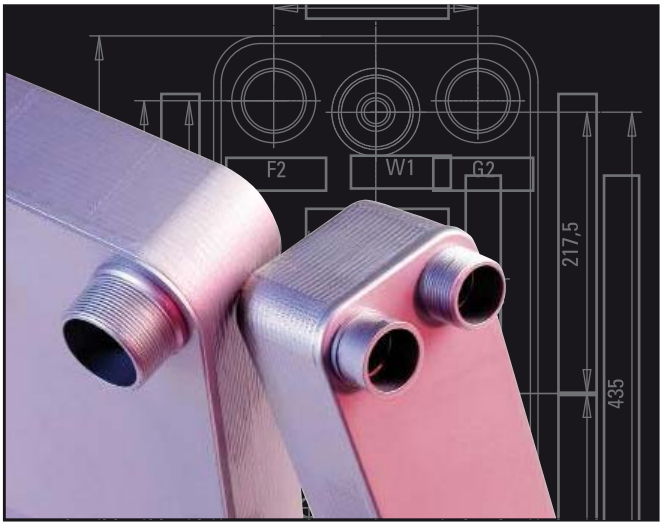
BRAZED PLATE HEAT EXCHANGERS



THERMOKEY

CODICE SCAMBIATORI A PIASTRE
Brazed Plate Heat Exchangers code

X 009 040 AA 0 0000

Carattere fisso / *Fixed data*

Modello es. / *Item i.e.*: TP09, TP12, TP82, ecc

Numero Piastre / *Plates no.*

Combinazione / tipologia attacchi (vedi pag. 15)
Configuration / connections no. *(see page 15)*

Impiego / Operating:
0 = serie normale/condensatore - 1 = serie D con distributori/evaporatore
2 = serie H altapressione - 3 = serie HD altapressione con distributori
0 = standard / condensator - 1 = D serie with distributor / evaporator
2 = H serie for High Pressure - 3 = HD for High Pressure with distributor

Solo per bicircuiti / Only for Double Circuit:
4 = serie I incrociata - 5 = serie ID incrociata con distributore
6 = serie IH incrociata altapressione - 7 = serie IHD incrociata altapressione con distributori
4 = I serie for Cross circuit - 5 = ID serie for Cross circuit with distributor
6 = IH for High Pressure with Cross circuit - 7 = IHD for High Pressure with Cross circuit and distributor

Progressivo numerico che identifica i tipi e le combinazioni dei raccordi
Progressive number to identify size & type connections

DESCRIZIONE CODICE PIASTRE:
Brazed Plate Heat Exchangers code description

BPHE TP82 D 90

F1=ODS22 F2=ODS35
W1=G1"1/4CM W2=G1"1/4CM
BW1=G1"1/4CML BW2=G1"1/4CML

Identificazione Scambiatori a Piastre / *Fixed data*

Modello es. / *Item i.e.*: TP09, TP12, TP82, ecc

Esecuzione - Utilizzo Scambiatore
Operating condition :
vuoto = serie normale/condensatore
D = serie con distributori/evaporatore - H = serie altapressione
HD = serie altapressione con distributori
Empty space = standard / condensator
D = distributor / evaporator serie - H = High Pressure serie
HD = High Pressure with distributor serie

Numero Piastre / Plates no.

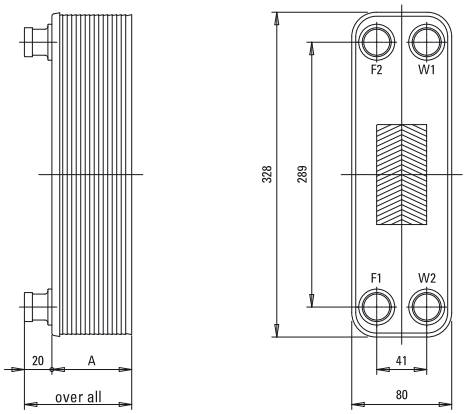
Tipo attacchi / *Connections type*:
ODS..... = attacchi a saldare + dimensione tubo
VIC..... = attacco flessibile + dimensione
RTLK.....= attacco rotalock + dimensione
G..... CM = attacchi filettati + dimensione filetto + tipo filettatura
ODS.... = Outer soldering pipe diameter
VIC.... = Flexible Joint and pipe diameter
RTLK.... = Rotalock type and outer soldering pipe diameter
G....CM = Size and type pipe thread

NB: TIPO FILETTATURA/*THREDING TYPE*
J = filetto conico C = filetto cilindrico + M = filetto maschio + F = filetto femmina + L = attacco lungo + C = attacco corto Vuoto = attacco normale
J = Conical C = Cylindrical + M = Male + F = Female + L = Long length connection + C = Short length connection Empty space = standard

TP09

SCAMBIATORI A PIASTRE
PLATE HEAT EXCHANGERS

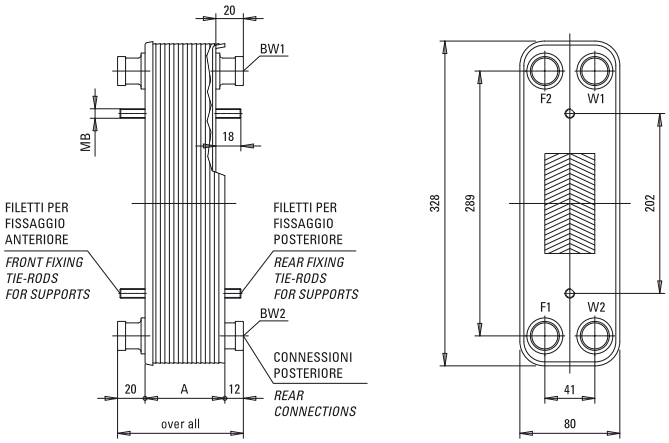
VERSIONE NORMALE STANDARD / *STANDARD NORMAL VERSION*

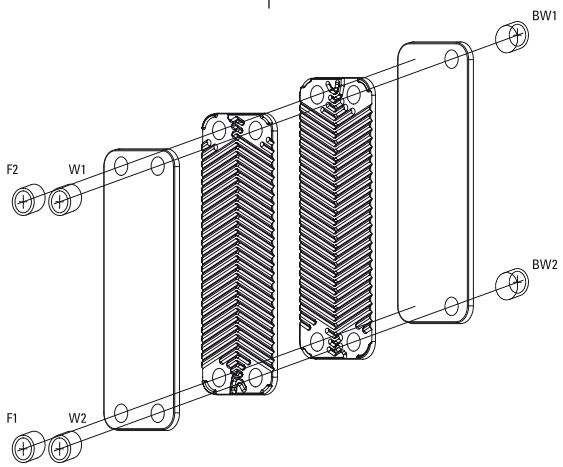


A= (Np x 2,45)+12

ACCESSORI POSSIBILI/*OPTIONAL ON REQUEST*

DA SPECIFICARE IN FASE D'ORDINE/*TO BE SPECIFIED ON ORDER*





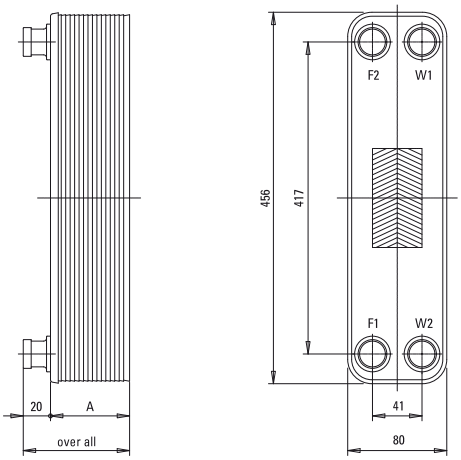
DATI TECNICI - *TECHNICAL DATA*					
VERSIONE / VERSION			**TP09 (R410A)**		
POTENZA "in condizioni standard di lavoro	*CAPACITY (nominal conditions)*		12 kW		
			Circuito - Circuit		
PRESSIONE MASSIMA DI LAVORO	*MAXIMUM ALLOVABLE WORKING PRESSURE*	50°C	F1-F2: 46 bar	W1-W2: 47 bar	
		120°C	F1-F2: 36 bar	W1-W2: 37 bar	
		300°C	F1-F2: 26 bar	W1-W2: 27 bar	
TEMPERATURA MINIMA DI LAVORO	*MIN. DESIGN TEMPERATURE*		- 100 °C (-148 °F)		
TEMPERATURA MASSIMA DI LAVORO	*MAX DESIGN TEMPERATURE*		+ 300 °C (+572 °F)		
NUMERO DI PIASTRE "NP"	*NUMBER OF PLATES*		min.: 8	max: 50	
NUMERO DI CAMERE	*NUMBER PER CHAMBER*		Circ./Circuit side F1-F2: (NP/2-1)	Circ./Circuit side W1-W2: (NP/2)	
VOLUME PER CAMERA	*VOLUME PER CHAMBER*		0.0474 litri/liters		
PORTATA MASSIMA	*TOTAL FLOW RATE*		.... m^3/h		
PESO COMPLESSIVO "P"	*TOTAL WEIGHT*		P=Np x 0.09 + 1 kg		
CONNESSIONE STANDARD CIRCUITO	*STANDARD CONNECTION FOR CIRCUIT*		F1:	ODS 18	F2: ODS 22
			W1:	G 1/2" Conico/Conical	W2: G 1/2" Conico/ Conical
CONNESSIONI A RICHIESTA "Da specificare in fase d'ordine"	*CONNECTION REQUIRED "To be specified on order"*		ODS 9.5 ODS 14	G 1/2" Cilindrico/Cylindrical G 1/2" Femmina /Female G 3/4" Cilindrico/ Cylindrical	Rotalock 3/4" Rotalock 1"

MATERIALI - *MATERIALS*		
MATERIALE PIASTRA DI SCAMBIO:	*PLATE HEAT EXCHANGER MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE CONNESSIONI:	*CONNECTIONS MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE BRASANTE:	*BRAZING MATERIAL:*	RAME PURO / *COPPER*- Cu -

TP22

THERMOKEY

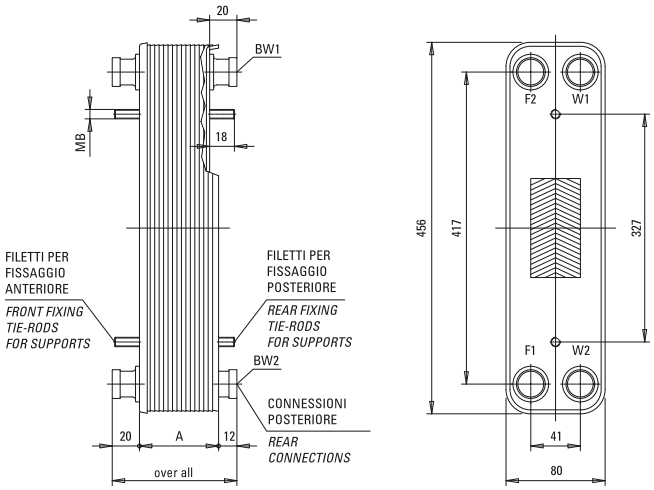
VERSIONE NORMALE STANDARD / *STANDARD NORMAL VERSION*

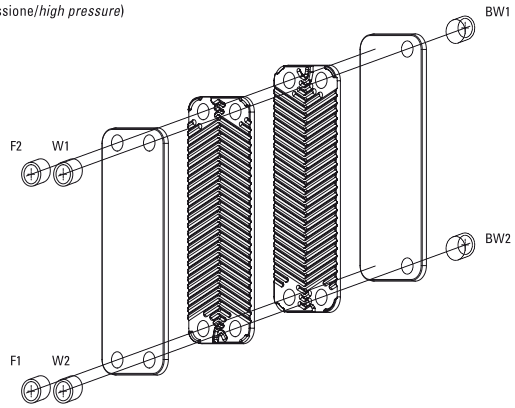


A= (Np x 2,45)+12 (versione/*version* TP22 normale/*normal*)
A= (Np x 2,45)+20 (versione/*version* TP22H alta pressione/*high pressure*)

ACCESSORI POSSIBILI/*OPTIONAL ON REQUEST*

DA SPECIFICARE IN FASE D'ORDINE/*TO BE SPECIFIED ON ORDER*





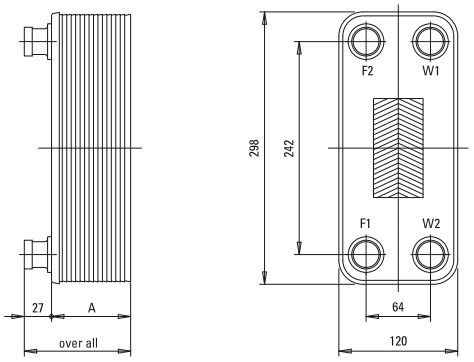
DATI TECNICI - *TECHNICAL DATA*						
VERSIONE / VERSION			**TP22**		**TP22 H (R410A)**	
POTENZA "in condizioni standard di lavoro	*CAPACITY (nominal conditions)*		28 kW			
			Circuito - Circuit			
PRESSIONE MASSIMA DILAVORO	*MAXIMUM ALLOVABLE WORKING PRESSURE*	50°C	F1-F2: 37 bar	W1-W2: 25 bar	F1-F2: 47 bar	W1-W2: 45 bar
		120°C	F1-F2: 29 bar	W1-W2: 20 bar	F1-F2: 37 bar	W1-W2: 35 bar
		300°C	F1-F2: 21 bar	W1-W2: 14 bar	F1-F2: 27 bar	W1-W2: 26 bar
TEMPERATURA MINIMA DI LAVORO	*MIN. DESIGN TEMPERATURE*		- 100 °C (-148 °F)			
TEMPERATURA MASSIMA DI LAVORO	*MAX DESIGN TEMPERATURE*		+ 300 °C (+572 °F)			
NUMERO DI PIASTRE "NP"	*NUMBER OF PLATES*		min.: 8	max: 60		
NUMERO DI CAMERE	*NUMBER PER CHAMBER*		Circ./Circuit side F1-F2: (NP/2-1)		Circ./Circuit side W1-W2: (NP/2)	
VOLUME PER CAMERA	*VOLUME PER CHAMBER*		0,0649 litri/liters			
PORTATA MASSIMA	*TOTAL FLOW RATE*		.... m³/h			
PESO COMPLESSIVO "P"	*TOTAL WEIGHT*		P=Np x 0.13 + 1,5 kg		P=Np x 0.13 + 3,5 kg	
CONNESSIONE STANDARD CIRCUITO	*STANDARD CONNECTION FOR CIRCUIT*		F1:	ODS 18	F2:	ODS 22
			W1:	G 1/2" Conico/ Conical	W2:	G 1/2" Conico/ Conical
CONNESSIONI A RICHIESTA "Da specificare in fase d'ordine"	*CONNECTION REQUIRED "To be specified on order"*		ODS 9,5	G 1/2" Cilindrico/ Cylindrical	G 1/2" Femmina/Female	
			ODS 14	G 3/4" Conico/ Conical	Rotalock 3/4"	
				G 3/4" Cilindrico/ Cylindrical	Rotalock 1"	

MATERIALI - *MATERIALS*		
MATERIALE PIASTRA DI SCAMBIO:	*PLATE HEAT EXCHANGER MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE CONNESSIONI:	*CONNECTIONS MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE BRASANTE:	*BRAZING MATERIAL:*	RAME PURO / *COPPER*- Cu -

TP12

SCAMBIATORI A PISTRE
PLATE HEAT EXCHANGERS

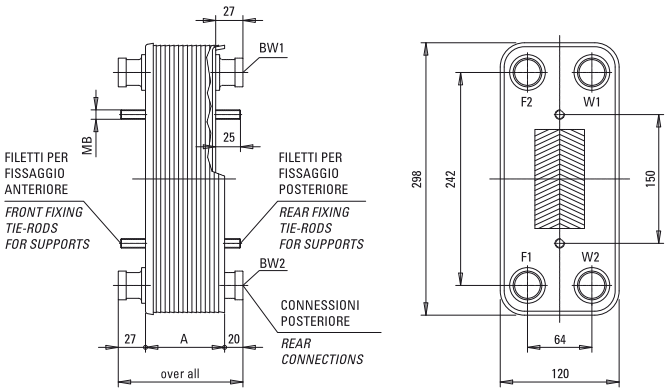
VERSIONE NORMALE STANDARD / *STANDARD NORMAL VERSION*

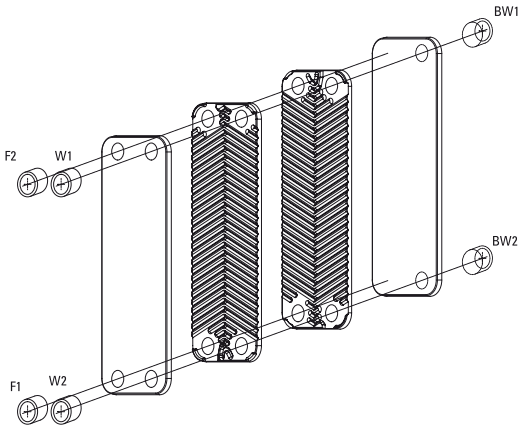


A= (Np x 2,45)+12 (versione/*version* TP12 normale/normal)
A= (Np x 2,45)+20 (versione/*version* TP12H alta pressione/high pressure)

ACCESSORI POSSIBILI/*OPTIONAL ON REQUEST*

DA SPECIFICARE IN FASE D'ORDINE/*TO BE SPECIFIED ON ORDER*





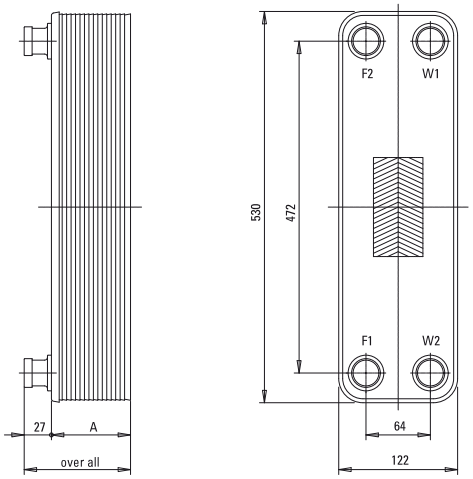
DATI TECNICI - *TECHNICAL DATA*						
VERSIONE / VERSION			**TP12**		**TP12 H (R410A)**	
POTENZA "in condizioni standard di lavoro	*CAPACITY (nominal conditions)*		30 kW			
			Circuito - Circuit			
PRESSIONE MASSIMA DI LAVORO	*MAXIMUM ALLOVABLE WORKING PRESSURE*	50°C	F1-F2: 40 bar	W1-W2: 38 bar	F1-F2: 53 bar	W1-W2: 56 bar
		120°C	F1-F2: 31 bar	W1-W2: 30 bar	F1-F2: 42 bar	W1-W2: 44 bar
		300°C	F1-F2: 23 bar	W1-W2: 22 bar	F1-F2: 31 bar	W1-W2: 32 bar
TEMPERATURA MINIMA DI LAVORO	*MIN. DESIGN TEMPERATURE*		- 100 °C (-148 °F)			
TEMPERATURA MASSIMA DI LAVORO	*MAX DESIGN TEMPERATURE*		+ 300 °C (+572 °F)			
NUMERO DI PIASTRE "NP"	*NUMBER OF PLATES*		min.: 8 max: 60			
NUMERO DI CAMERE	*NUMBER PER CHAMBER*		Circ./Circuit side F1-F2: (NP/2-1)		Circ./Circuit side W1-W2: (NP/2)	
VOLUME PER CAMERA	*VOLUME PER CHAMBER*		0,0708 litri/liters			
PORTATA MASSIMA	*TOTAL FLOW RATE*		.... m^3/h			
PESO COMPLESSIVO "P"	*TOTAL WEIGHT*		P=Np x 0.112 + 1,7 kg		P=Np x 0.112 + 4 kg	
CONNESSIONE STANDARD CIRCUITO	*STANDARD CONNECTION FOR CIRCUIT*		F1: ODS 22		F2: ODS 28	
			W1: G 1" Conico/ Conical		W2: G 1" Conico/ Conical	
CONNESSIONI A RICHIESTA "Da specificare in fase d'ordine"	*CONNECTION REQUIRED "To be specified on order"*		ODS 35	G 1/2" Femmina/Female G 1" Cilindrico/ Cylindrical G 1" 1/4" Conico/ Conical	G 1" 1/4 Cilindrico/ Cylindrical DN32 1" 1/4 Flexible Joint Rotalock (a richiesta) - *(on request)*	

MATERIALI - *MATERIALS*		
MATERIALE PIASTRA DI SCAMBIO:	*PLATE HEAT EXCHANGER MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE CONNESSIONI:	*CONNECTIONS MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE BRASANTE:	*BRAZING MATERIAL:*	RAME PURO / *COPPER*- Cu -

TP82

THERMOKEY

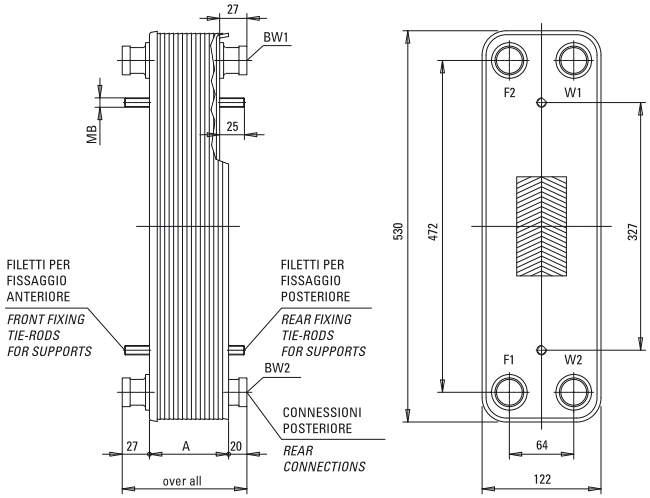
VERSIONE NORMALE STANDARD / *STANDARD NORMAL VERSION*

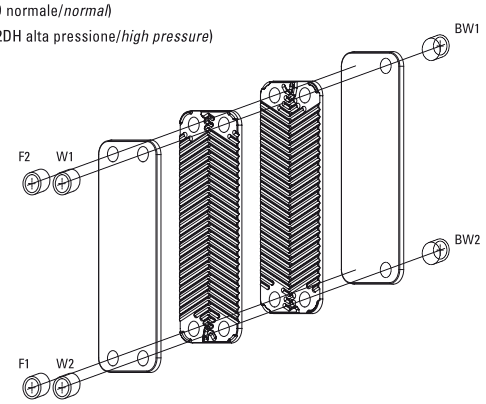


A= (Np x 2,45)+12 (versione/*version* TP82-TP82D normale/*normal*)
A= (Np x 2,45)+20 (versione/*version* TP82H-TP82DH alta pressione/*high pressure*)

ACCESSORI POSSIBILI/*OPTIONAL ON REQUEST*

DA SPECIFICARE IN FASE D'ORDINE/*TO BE SPECIFIED ON ORDER*





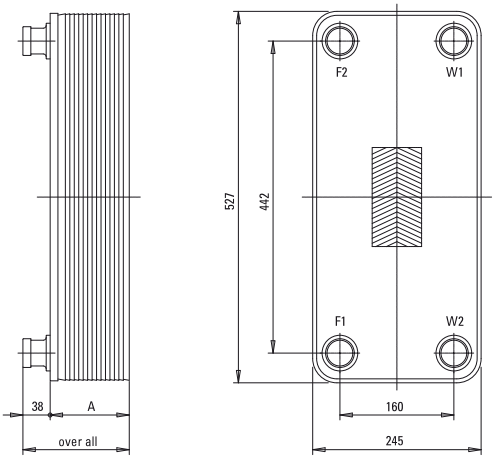
DATI TECNICI - *TECHNICAL DATA*						
VERSIONE / VERSION			**TP82 - TP82D**		**TP82H - TP82HD (R410A)**	
POTENZA "in condizioni standard di lavoro	*CAPACITY (nominal conditions)*		85 kW			
			Circuito - Circuit			
PRESSIONE MASSIMA DI LAVORO	*MAXIMUM ALLOVABLE WORKING PRESSURE*	50°C	F1-F2: 46 bar	W1-W2: 40 bar	F1-F2: 57 bar	W1-W2: 52 bar
		120°C	F1-F2: 36 bar	W1-W2: 31 bar	F1-F2: 45 bar	W1-W2: 41 bar
		300°C	F1-F2: 26 bar	W1-W2: 23 bar	F1-F2: 33 bar	W1-W2: 30 bar
TEMPERATURA MINIMA DI LAVORO	*MIN. DESIGN TEMPERATURE*		- 100 °C (-148 °F)			
TEMPERATURA MASSIMA DI LAVORO	*MAX DESIGN TEMPERATURE*		+ 300 °C (+572 °F)			
NUMERO DI PIASTRE "NP"	*NUMBER OF PLATES*		min.: 8 max: 120			
NUMERO DI CAMERE	*NUMBER PER CHAMBER*		Circ./Circuit side F1-F2: (NP/2-1)		Circ./Circuit side W1-W2: (NP/2)	
VOLUME PER CAMERA	*VOLUME PER CHAMBER*		0,115 litri/liters			
PORTATA MASSIMA	*TOTAL FLOW RATE*		.... m^3/h			
PERO COMPLESSIVO "P"	*TOTAL WEIGHT*		P=Np x 0.206 + 2,5 kg		P=Np x 0.206 + 6,5 kg	
CONNESSIONE STANDARD CIRCUITO	*STANDARD CONNECTION FOR CIRCUIT*		F1:	ODS 22	F2:	ODS 35
			W1:	G 1" 1/4 Conico/ Conical	W2:	G 1" 1/4 Conico/ Conical
CONNESSIONI A RICHIESTA "Da specificare in fase d'ordine"	*CONNECTION REQUIRED "To be specified on order"*		ODS 28	G 1/2" Femmina/Female	DN 32	1" 1/4 Flexible Joint
				G 1" Conico/ Conical	DN 40	1" 1/2 Flexible Joint
				G 1" Cilindrico/Cylindrical	Rotalock (a richiesta) - *(on request)*	
				G 1" 1/4 Cilindrico/Cylindrical		

MATERIALI - *MATERIALS*		
MATERIALE PIASTRA DI SCAMBIO:	*PLATE HEAT EXCHANGER MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE CONNESSIONI:	*CONNECTIONS MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE BRASANTE:	*BRAZING MATERIAL:*	RAME PURO / *COPPER*- Cu -

TP202

SCAMBIATORI A PIASTRE
PLATE HEAT EXCHANGERS

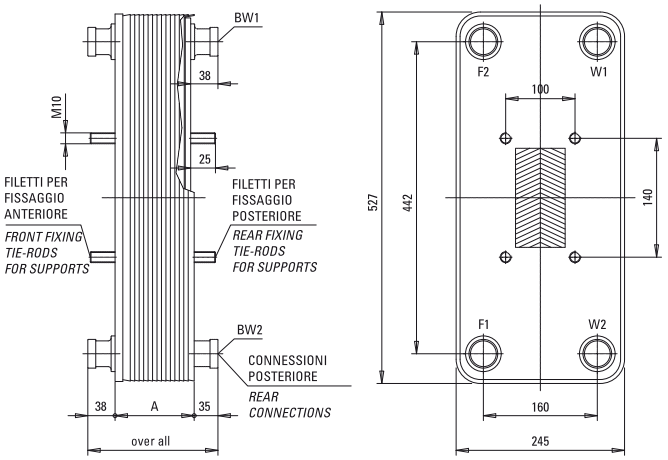
VERSIONE NORMALE STANDARD / *STANDARD NORMAL VERSION*



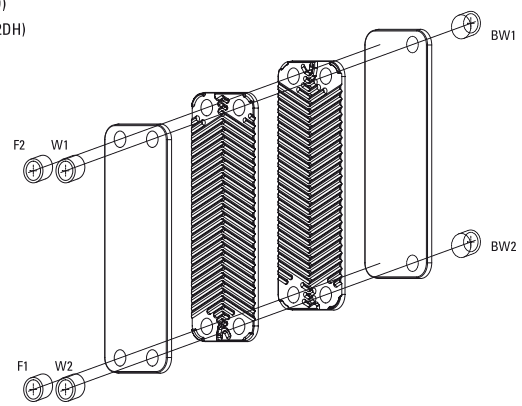
A= (Np x 2,45)+12 (versione TP202-TP202D)
A= (Np x 2,45)+28 (versione TP202H-TP202DH)

ACCESSORI POSSIBILI/*OPTIONAL ON REQUEST*

DA SPECIFICARE IN FASE D'ORDINE/*TO BE SPECIFIED ON ORDER*



NB:POSSIBILE ANCHE KIT DI SUPPORTO/ *SUPPORT KIT AVAILABLE*



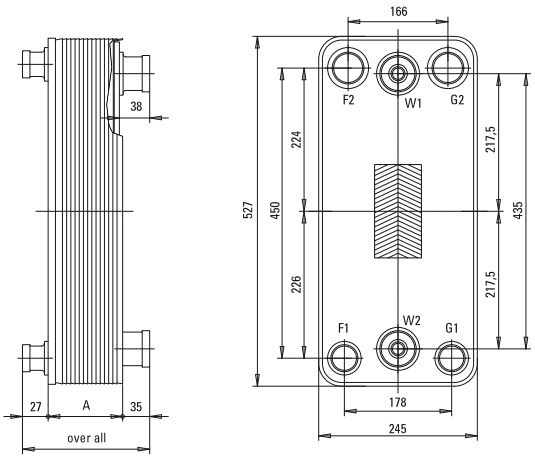
DATI TECNICI - *TECHNICAL DATA*						
VERSIONE / VERSION			**TP202 - TP202D**		**TP202H - TP202HD (R410A)**	
POTENZA "in condizioni standard di lavoro	*CAPACITY (nominal conditions)*		220 kW			
			Circuito - Circuit			
PRESSIONE MASSIMA DI LAVORO	*MAXIMUM ALLOVABLE WORKING PRESSURE*	50°C	F1-F2: 35 bar	W1-W2: 35 bar	F1-F2: 48 bar	W1-W2: 35 bar
		120°C	F1-F2: 27 bar	W1-W2: 27 bar	F1-F2: 37 bar	W1-W2: 27 bar
		300°C	F1-F2: 20 bar	W1-W2: 20 bar	F1-F2: 27 bar	W1-W2: 20 bar
TEMPERATURA MINIMA DI LAVORO	*MIN. DESIGN TEMPERATURE*		- 100 °C (-148 °F)			
TEMPERATURA MASSIMA DI LAVORO	*MAX DESIGN TEMPERATURE*		+ 300 °C (+572 °F)			
NUMERO DI PIASTRE "NP"	*NUMBER OF PLATES*		min.: 8 max: 150			
NUMERO DI CAMERE	*NUMBER PER CHAMBER*		Circ./Circuit side F1-F2: (NP/2-1)		Circ./Circuit side W1-W2: (NP/2)	
VOLUME PER CAMERA	*VOLUME PER CHAMBER*		0,255 litri/liters			
PORTATA MASSIMA	*TOTAL FLOW RATE*		.... m^3/h			
PESO COMPLESSIVO "P"	*TOTAL WEIGHT*		P=Np x 0.406 + 9,2 kg		P=Np x 0.406 + 18 kg	
CONNESSIONE STANDARD CIRCUITO	*STANDARD CONNECTION FOR CIRCUIT*		F1: ODS 35		F2: ODS 54	
			W1: G 2" Conico/ Conical		W2: G 2" Conico/ Conical	
CONNESSIONI A RICHIESTA "Da specificare in fase d'ordine"	*CONNECTION REQUIRED "To be specified on order"*		G 1/2" Femmina/ Female G 1" 1/2 Conico/ Conical G 1" 1/2 Cilindrico/ Cylindrical G 2" Cilindrico/ Cylindrical G 2" 1/2 Cilindrico/ Cylindrical		DN 50 2" Flexible Joint DN 65 2" 1/2 Flexible Joint	

MATERIALI - *MATERIALS*		
MATERIALE PIASTRA DI SCAMBIO:	*PLATE HEAT EXCHANGER MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE CONNESSIONI:	*CONNECTIONS MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE BRASANTE:	*BRAZING MATERIAL:*	RAME PURO / *COPPER*- Cu -

TP222

THERMOKEY

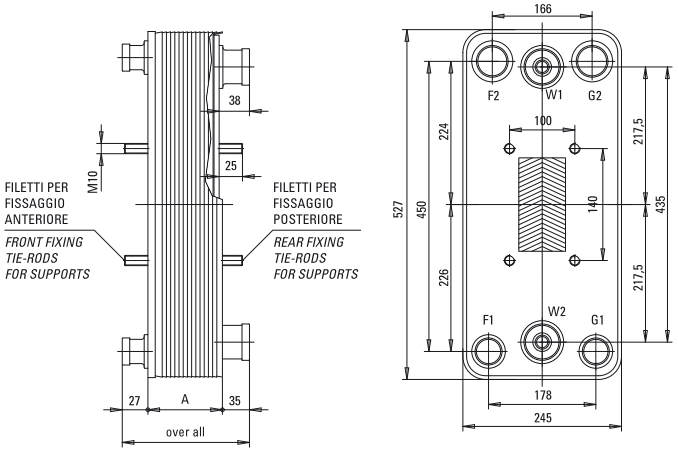
VERSIONE NORMALE STANDARD / *STANDARD NORMAL VERSION*



A= (Np x 2,45)+12 (versione/ *version* TP222-TP222D)
A= (Np x 2,45)+28 (versione/ *version* TP222H-TP222DH)

ACCESSORI POSSIBILI/*OPTIONAL ON REQUEST*

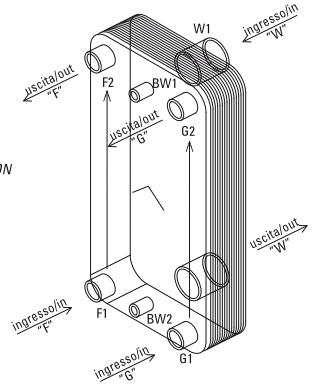
DA SPECIFICARE IN FASE D'ORDINE/*TO BE SPECIFIED ON ORDER*



NB:POSSIBILE ANCHE KIT DI SUPPORTO/ *SUPPORT KIT AVAILABLE*

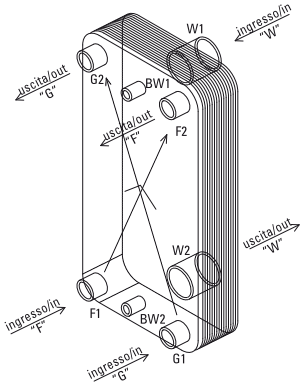
STANDARD

VERSIONE NORMALE / *NORMAL VERSION*



A RICHIESTA/*ON REQUEST*

VERSIONE INCROCIATA/*CROSS VERSION*



DATI TECNICI - *TECHNICAL DATA*								
VERSIONE / VERSION			**TP222 - TP222D**			**TP222H - TP222HD (R410A)**		
POTENZA "in condizioni standard di lavoro	*CAPACITY (nominal conditions)*		2x110 kW					
			Circuito - Circuit					
PRESSIONE MASSIMA DI LAVORO	*MAXIMUM ALLOVABLE WORKING PRESSURE*	50°C	F1-F2: 40 bar	G1-G2: 40 bar	W1-W2: 36 bar	F1-F2: 45 bar	G1-G2: 45 bar	W1-W2: 55 bar
		120°C	F1-F2: 31 bar	G1-G2: 31 bar	W1-W2: 28 bar	F1-F2: 35 bar	G1-G2: 35 bar	W1-W2: 43 bar
		300°C	F1-F2: 23 bar	G1-G2: 23 bar	W1-W2: 21 bar	F1-F2: 26 bar	G1-G2: 26 bar	W1-W2: 32 bar
TEMPERATURA MINIMA DI LAVORO	*MIN. DESIGN TEMPERATURE*		- 100 °C (-148 °F)					
TEMPERATURA MASSIMA DI LAVORO	*MAX DESIGN TEMPERATURE*		+ 300 °C (+572 °F)					
NUMERO DI PIASTRE "NP"	*NUMBER OF PLATES*		min.: 14 max: 210					
NUMERO DI CAMERE	*NUMBER PER CHAMBER*		Circ./Circuit side F1-F2: (NP/2-1)			Circ./Circuit side W1-W2: (NP/2)		
VOLUME PER CAMERA	*VOLUME PER CHAMBER*		0,227 litri/liters					
PORTATA MASSIMA	*TOTAL FLOW RATE*		.... m³/h					
PESO COMPLESSIVO "P"	*TOTAL WEIGHT*		P=Np x 0.406 + 9,2 kg			P=Np x 0.406 + 18 kg		
CONNESSIONE STANDARD CIRCUITO	*STANDARD CONNECTION FOR CIRCUIT*		F1: ODS 28			F2: ODS 42		
			G1: ODS 28			G2: ODS 42		
			W1: G 2" Cilindrico/ Cylindrical			W2: G 2" Cilindrico/ Cylindrical		
PORTATA SONDA	*SENSOR POCKET*		BW1: G 1/2 Femmina/ Female			BW2: G 1/2 Femmina/ Female		
CONNESSIONI A RICHIESTA "Da specificare in fase d'ordine"	*CONNECTION REQUIRED "To be specified on order"*		F1 - F2 e G1 - G2: ODS 22 G 3/4" Cilindrico/ Cylindrical ODS 35 G 2" Conico/Conical G2" 1/2 Cilindrico/ Cylindrical			W1 - W2: DN 50 2" Flexible Joint DN 65 2" 1/2 Flexible Joint		

MATERIALI - *MATERIALS*		
MATERIALE PIASTRA DI SCAMBIO:	*PLATE HEAT EXCHANGER MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE CONNESSIONI:	*CONNECTIONS MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE BRASANTE:	*BRAZING MATERIAL:*	RAME PURO / *COPPER*- Cu -

SCAMBIATORI A PIASTRE

TP09	TP22	TP12	TP82	TP202	TP222
12 kW	28 kW	30 kW	85 kW	220 kW	220 kW dual circuit

Ready for R410A

TP404
440 kW

TP424
440 kW dual circuit

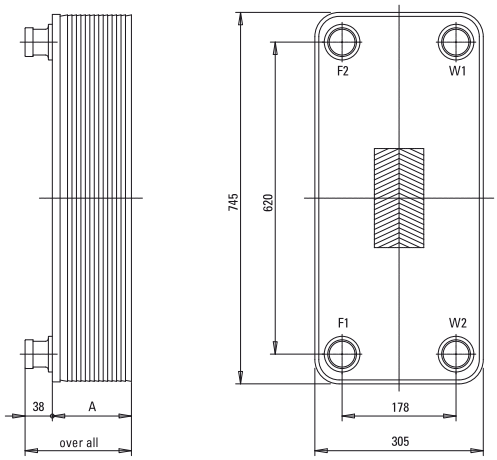
TP606
660 kW

BRAZED PLATE HEAT EXCHANGERS

TP404

SCAMBIATORI A PIASTRE
PLATE HEAT EXCHANGERS

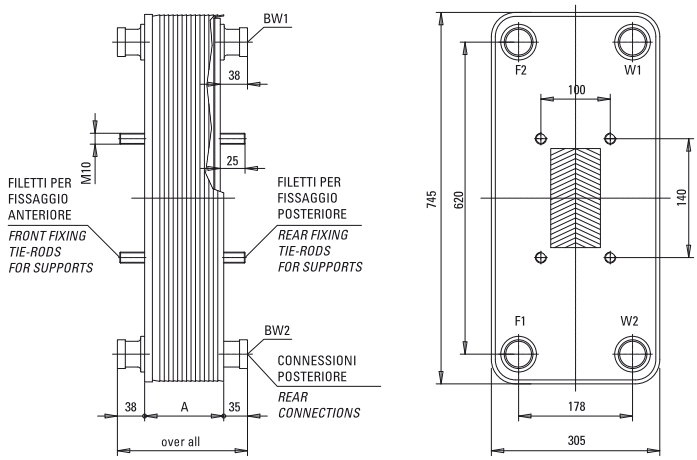
VERSIONE NORMALE STANDARD / *STANDARD NORMAL VERSION*



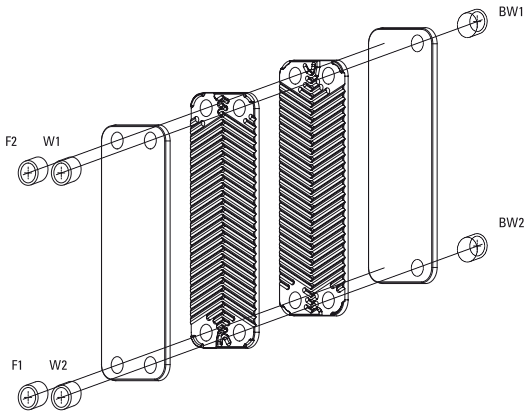
A= (Np x 2,95)+12 (versione/ *version* TP404-TP404D)
A= (Np x 2,95)+28 (versione/*version* TP404H-TP404DH)

ACCESSORI POSSIBILI/*OPTIONAL ON REQUEST*

DA SPECIFICARE IN FASE D'ORDINE/*TO BE SPECIFIED ON ORDER*



NB:POSSIBILE ANCHE KIT DI SUPPORTO/ *SUPPORT KIT AVAILABLE*



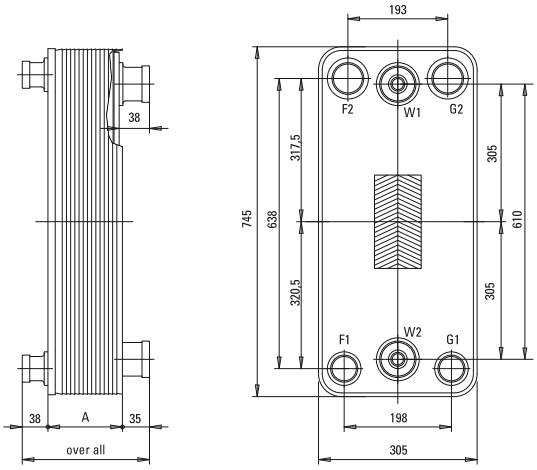
DATI TECNICI - *TECHNICAL DATA*						
VERSIONE / VERSION			**TP404 - TP404D**			
POTENZA "in condizioni standard di lavoro	*CAPACITY (nominal conditions)*		440 kW			
			Circuito - Circuit			
PRESSIONE MASSIMA LAVORO	*MAXIMUM ALLOVABLE WORKING PRESSURE*	50°C	F1-F2: 38 bar		W1-W2: 35 bar	
		120°C	F1-F2: 30 bar		W1-W2: 27 bar	
		300°C	F1-F2: 22 bar		W1-W2: 19 bar	
TEMPERATURA MINIMA DI LAVORO	*MIN. DESIGN TEMPERATURE*		- 100 °C (-148 °F)			
TEMPERATURA MASSIMA DI LAVORO	*MAX DESIGN TEMPERATURE*		+ 300 °C (+572 °F)			
NUMERO DI PIASTRE "NP"	*NUMBER OF PLATES*		min.: 20	max: 250		
NUMERO DI CAMERE	*NUMBER PER CHAMBER*		Circ./Circuit side F1-F2: (NP/2-1)		Circ./Circuit side W1-W2: (NP/2)	
VOLUME PER CAMERA	*VOLUME PER CHAMBER*		0,56 litri/liters			
PORTATA MASSIMA	*TOTAL FLOW RATE*		.... m³/h			
PESO COMPLESSIVO "P"	*TOTAL WEIGHT*		P=Np x 0,720 + 30 kg			
CONNESSIONE STANDARD CIRCUITO	*STANDARD CONNECTION FOR CIRCUIT*		F1:	ODS 54	F2:	ODS 76
			W1:	G 3" Cilindrico/ Cylindrical	W2:	G 2" Cilindrico/ Cylindrical
CONNESSIONI A RICHIESTA "Da specificare in fase d'ordine"	*CONNECTION REQUIRED "To be specified on order"*		ODS 64	G 2" 1/2	DN 65	2" 1/2 Flexible Joint
					DN 80	3" Flexible Joint

MATERIALI - *MATERIALS*		
MATERIALE PIASTRA DI SCAMBIO:	*PLATE HEAT EXCHANGER MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE CONNESSIONI:	*CONNECTIONS MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE BRASANTE:	*BRAZING MATERIAL:*	RAME PURO / *COPPER*- Cu -

TP424

THERMOKEY

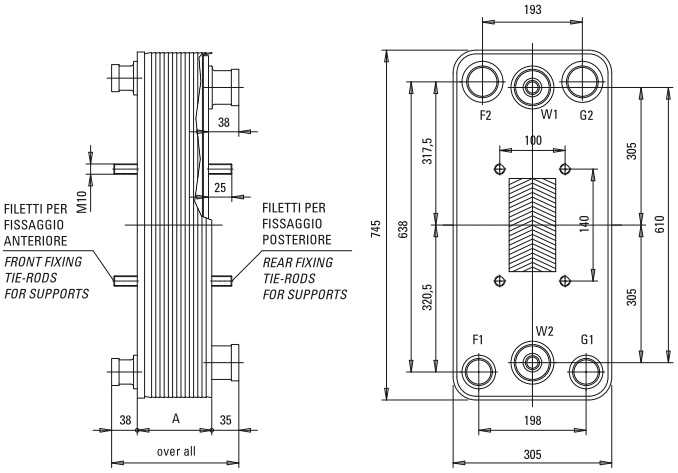
VERSIONE NORMALE STANDARD / *STANDARD NORMAL VERSION*



A= (Np x 2,95)+12 (versione/ *version* TP424-TP424D)
A= (Np x 2,95)+28 (versione/*version* TP424H-TP424DH)

ACCESSORI POSSIBILI/*OPTIONAL ON REQUEST*

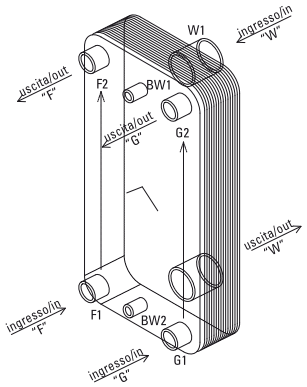
DA SPECIFICARE IN FASE D'ORDINE/*TO BE SPECIFIED ON ORDER*



NB:POSSIBILE ANCHE KIT DI SUPPORTO/ *SUPPORT KIT AVAILABLE*

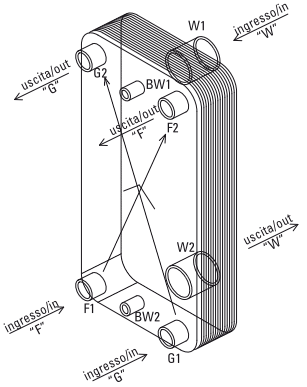
STANDARD

VERSIONE NORMALE / *NORMAL VERSION*



A RICHIESTA/*ON REQUEST*

VERSIONE INCROCIATA/*CROSS VERSION*



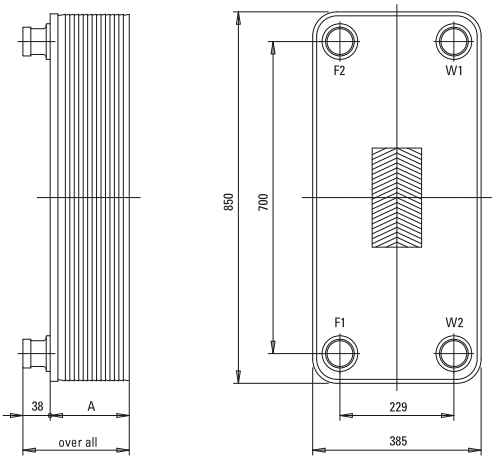
DATI TECNICI - *TECHNICAL DATA*						
VERSIONE / VERSION			**TP424 - TP424D**			
POTENZA "in condizioni standard di lavoro	*CAPACITY (nominal conditions)*		2x220 kW			
			Circuito - Circuit			
PRESSIONE MASSIMA DI LAVORO	*MAXIMUM ALLOVABLE WORKING PRESSURE*	50°C	F1-F2: 35 bar	G1-G2: 36 bar	W1-W2: 31 bar	
		120°C	F1-F2: 27 bar	G1-G2: 28 bar	W1-W2: 24 bar	
		300°C	F1-F2: 19 bar	G1-G2: 20 bar	W1-W2: 18 bar	
TEMPERATURA MINIMA DI LAVORO	*MIN. DESIGN TEMPERATURE*		- 100 °C (-148 °F)			
TEMPERATURA MASSIMA DI LAVORO	*MAX DESIGN TEMPERATURE*		+ 300 °C (+572 °F)			
NUMERO DI PIASTRE "NP"	*NUMBER OF PLATES*		min.: 18 max: 252			
NUMERO DI CAMERE	*NUMBER PER CHAMBER*		Circ./Circuit side F1-F2: (NP/2-1)		Circ./Circuit side W1-W2: (NP/2)	
VOLUME PER CAMERA	*VOLUME PER CHAMBER*		0,486 litri/liters			
PORTATA MASSIMA	*TOTAL FLOW RATE*		.... m³/h			
PESO COMPLESSIVO "P"	*TOTAL WEIGHT*		P=Np x 0.720 + 30 kg			
CONNESSIONE STANDARD CIRCUITO	*STANDARD CONNECTION FOR CIRCUIT*		F1:	ODS 54	F2:	ODS 54
			G1:	ODS 54	G2:	ODS 54
			W1:	G 3" Cilindrico/ Cylindrical	W2:	G 3" Cilindrico/ Cylindrical
PORTA SONDA	*SENSOR POCKET*		BW1:	G 1/2" Femmina/ Female	BW2:	G 1/2" Femmina/ Female
CONNESSIONI A RICHIESTA "Da specificare in fase d'ordine"	*CONNECTION REQUIRED "To be specified on order"*		ODS 64	G 3/4" Cilindrico/ Cylindrical G 2" 1/2 Cilindrico/ Cylindrical	DN 65 DN 80	2" 1/2 Flexible Joint 3" Flexible Joint

MATERIALI - *MATERIALS*		
MATERIALE PIASTRA DI SCAMBIO:	*PLATE HEAT EXCHANGER MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE CONNESSIONI:	*CONNECTIONS MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE BRASANTE:	*BRAZING MATERIAL:*	RAME PURO / *COPPER*- Cu -

TP606

SCAMBIATORI A PISTRE
PLATE HEAT EXCHANGERS

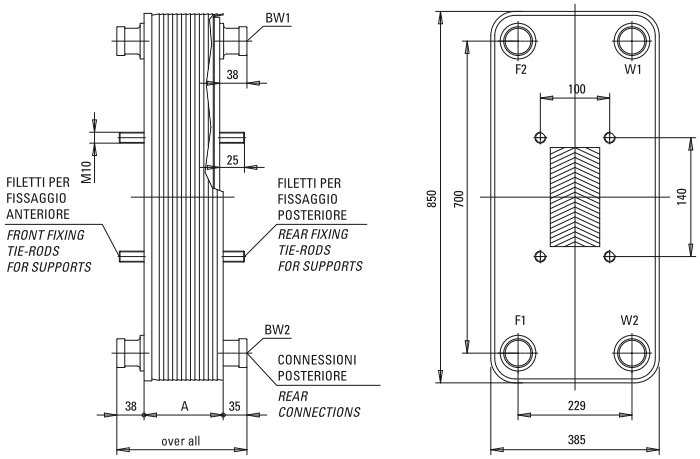
VERSIONE NORMALE STANDARD / *STANDARD NORMAL VERSION*



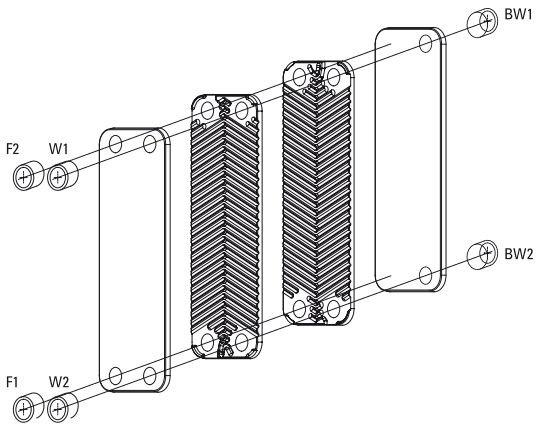
A= (Np x 2,95)+12 (versione/version TP606-TP606D)
A= (Np x 2,95)+28 (versione/version TP606H-TP606DH)

ACCESSORI POSSIBILI/*OPTIONAL ON REQUEST*

DA SPECIFICARE IN FASE D'ORDINE/*TO BE SPECIFIED ON ORDER*

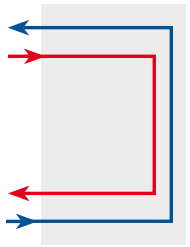


NB:POSSIBILE ANCHE KIT DI SUPPORTO/ *SUPPORT KIT AVAILABLE*

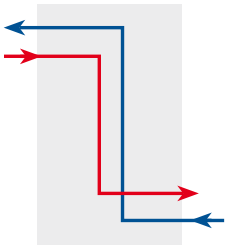


DATI TECNICI - *TECHNICAL DATA*				
VERSIONE / VERSION			**TP606**	
POTENZA "in condizioni standard di lavoro	*CAPACITY (nominal conditions)*		660 kW	
			Circuito - Circuit	
PRESSIONE MASSIMA DI LAVORO	*MAXIMUM ALLOVABLE WORKING PRESSURE*	50°C	F1-F2: .. bar	W1-W2: .. bar
		120°C	F1-F2: .. bar	W1-W2: .. bar
		300°C	F1-F2: .. bar	W1-W2: .. bar
TEMPERATURA MINIMA DI LAVORO	*MIN. DESIGN TEMPERATURE*		- 100 °C (-148 °F)	
TEMPERATURA MASSIMA DI LAVORO	*MAX DESIGN TEMPERATURE*		+ 300 °C (+572 °F)	
NUMERO DI PIASTRE "NP"	*NUMBER OF PLATES*		min.: 20 max: 250	
NUMERO DI CAMERE	*NUMBER PER CHAMBER*		Circ./Circuit side F1-F2: (NP/2-1)	Circ./Circuit side W1-W2: (NP/2)
VOLUME PER CAMERA	*VOLUME PER CHAMBER*		... litri/liters	
PORTATA MASSIMA	*TOTAL FLOW RATE*		.... m^3/h	
PESO COMPLESSIVO "P"	*TOTAL WEIGHT*		P=Np x .. + .. kg	
CONNESSIONE STANDARD CIRCUITO	*STANDARD CONNECTION FOR CIRCUIT*		F1: DN 80 3" Flexible Joint	F2: DN 100 4" Flexible Joint
			W1: G 4" Cilindrico/ Cylindrical	W2: G 4" Cilindrico/ Cylindrical
CONNESSIONI A RICHIESTA "Da specificare in fase d'ordine"	*CONNECTION REQUIRED "To be specified on order"*		G 2" 1/2 Cilindrico/ Cylindrical	DN 90 3" 1/2 Flexible Joint
			G 3" Cilindrico/ Cylindrical	G 3" 1/2 Cilindrico/ Cylindrical

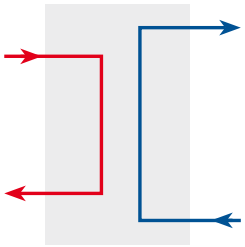
MATERIALI - *MATERIALS*		
MATERIALE PIASTRA DI SCAMBIO:	*PLATE HEAT EXCHANGER MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE CONNESSIONI:	*CONNECTIONS MATERIAL:*	1.4401 - EN10028/7 "AISI 316L"
MATERIALE BRASANTE:	*BRAZING MATERIAL:*	RAME PURO / *COPPER*- Cu -



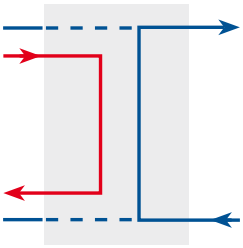
Standard design model



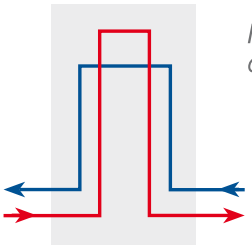
Z circuit design



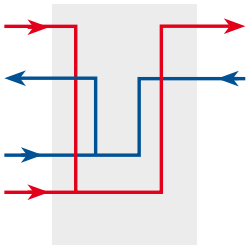
Double-U design



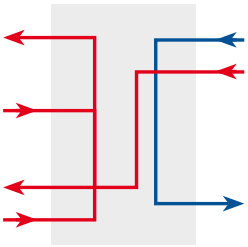
Double-U Plus F3/F4 design



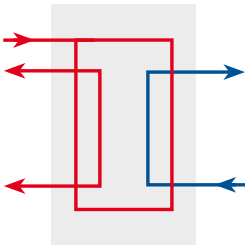
Multi pass design



Two-Stage design



Combination plate heat exchanger



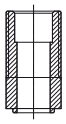
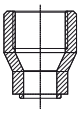
Two-circuit

COMBINAZIONE - TIPOLOGIA ATTACCHI / *CONFIGURATION - CONNECTIONS NO.*						MONOCIRCUITO / *SINGLE CIRCUIT*				CODICE / *CODE PART*
4 att.										(Vedi pag. 3 / *See page 3*)
	F1	F2		W1	W2					AA
	F1	F2				BW1	BW2			AB
	F1	F2		W1			BW2			AC
	F1	F2			W2	BW1				AD
		F2		W1		BW1		BF2		AE
		F2		W1			BW2	BF1		AF
	F1				W2		BW2	BF1		AG
	F1				W2	BW1		BF2		AH
5 att.										
	F1	F2		W1	W2	BW1				BA
	F1	F2		W1	W2		BW2			BB
	F1	F2		W1		BW1	BW2			BC
	F1	F2			W2	BW1	BW2			BD
6 att.										
	F1	F2		W1	W2	BW1	BW2			CA
	F1	F2		W1	W2			BF1	BF2	CB
	F1	F2		W1	W2	BW1			BF2	CC
	F1	F2		W1	W2		BW2	BF1		CD
8 att.										
	F1	F2		W1	W2	BW1	BW2	BF1	BF2	DA

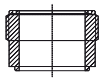
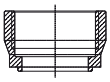
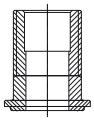
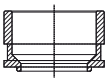
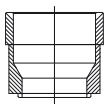
COMBINAZIONE - TIPOLOGIA ATTACCHI / *CONFIGURATION - CONNECTIONS NO.*							BICIRCUITO / *DOUBLE CIRCUIT*				CODICE/ *CODE PART*
6 att.											(Vedi pag. 3 / *See page 3*)
	F1	F2	G1	G2			BW1	BW2			MA
	F1	F2	G1	G2	W1	W2					MB
7 att.											
	F1	F2	G1	G2	W1		BW1	BW2			NA
	F1	F2	G1	G2		W2	BW1	BW2			NB
	F1	F2	G1	G2	W1	W2	BW1				NC
	F1	F2	G1	G2	W1	W2		BW2			ND
8 att.											
	F1	F2	G1	G2	W1	W2	BW1	BW2			PA

CONNESSIONI DISPONIBILI
AVAILABLE CONNECTIONS

TP09-TP22

ODS 9.5 e 3/8 INCH codice/code: PR001008 codice/code L9.5 	**ODS 12.5 e 1/2 INCH** codice/code: PR001014 codice/code L12.5 	**ODS 14** codice/code: PR001009 codice/code L14 	**ODS 16 e 5/8 INCH** codice/code: PR001015 codice/code L16 
ODS 18 codice/code: PR001001 codice/code L918 	**ODS 19 e 3/4 INCH** codice/code: PR001016 codice/code L19 	**ODS 22 e 7/8 INCH** codice/code: PR001002 codice/code L22 	**1/2" Gas Cil.** Femmina/Female codice/code: PR001007 codice/code G2F 
1/2" Gas Con. Maschio/Male codice/code: PR001003 codice/code G2C 	**1/2" Gas Cil.** Maschio/Male codice/code: PR001004 codice/code G2 	**3/4" Gas Con.** Maschio/Male codice/code: PR001005 codice/code G3C 	**3/4" Gas Cil.** Maschio/Male codice/code: PR001006 codice/code G3 
ROTALOCK 3/4" codice/code: PR001013 codice/code R3/4-16UNF 	**ROTALOCK 1"** codice/code: PR001011 codice/code R31-14UNF 	**3/4" Gas Cil.** Lungo/Long codice/code: PR001010 codice/code G3SL 	**3/4" Gas Cil.** Femm. lungo/Female Long codice/code: PR001012 codice/code G3FL 

TP12-TP82-TP222

ODS 22 e 7/8 INCH codice/code: PR002001 codice/code L22A 	**ODS 28 e 1"1/8 INCH** codice/code: PR00102002 codice/code L28 	**ODS 35 e 1"3/8 INCH** codice/code: PR002003 codice/code L35 	**ROTALOCK 1"1/4** codice/code: PR002018 codice/code R1"1/4-12UNF 	**ROTALOCK 1"3/4** codice/code: PR002019 codice/code R1"3/4-12UN 
1" Gas con. Maschio/Male codice/code: PR002004 codice/code G4C 	**1" Gas cil.** Maschio/Male codice/code: PR002005 codice/code G4 	**1"1/4 Gas con.** Maschio/Male codice/code: PR002006 codice/code G5C 	**1"1/4 Gas cil.** Maschio/Male codice/code: PR002007 codice/code G5 	
3/4" Gas cil. Femmina/Female codice/code: PR002015 codice/code G3FA 	**1" Gas cil.** Femmina/Female codice/code: PR002012 codice/code G4F 	**1"1/4 Gas cil.** Femmina/Female codice/code: PR002013 codice/code G5F 	**1" Gas cil.** Maschio/Male corto/short codice/code: PR0020110 codice/code G4SC  ODS 22 int.	**1" Gas cil.** Maschio/Male lungo/long codice/code: PR002011 codice/code G4SL  ODS 22 int.
Flexible Joint 1"1/4 codice/code: PR002008 codice/code DN32 	**Flexible Joint 1"1/2** codice/code: PR002009 codice/code DN40 	**Flexible Joint 1"1/4** lungo/long codice/code: PR002016 codice/code DN32SL 	**Flexible Joint 1"1/2** lungo/long codice/code: PR002014 codice/code DN40SL 	

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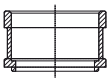
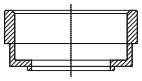
ODS 42 e 1"5/8 INCH codice/code: PR004001 codice/code L942 
ODS 54 codice/code: PR004002 codice/code L54A 

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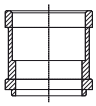
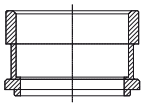
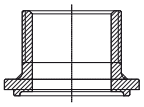
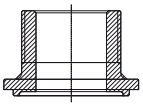
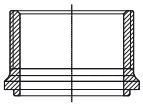
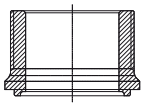
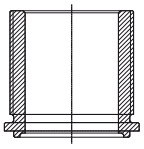
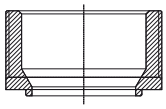
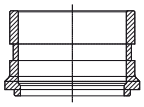
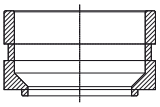
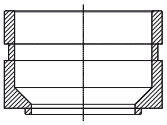
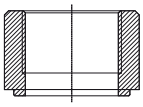
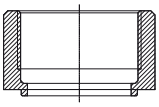
ODS 35 e 1”3/8 INCH codice/code: PR003001 codice/code L35A 	**ODS 54** codice/code: PR003002 codice/code L54 	**1”1/2 Gas con.** Maschio/Male codice/code: PR003003 codice/code G6C 	**1”1/2 Gas cil.** Maschio/Male codice/code: PR003004 codice/code G6 
2” Gas con. Maschio/Male codice/code: PR003005 codice/code G8C 	**2” Gas cil.** Maschio/Male codice/code: PR003006 codice/code G8 	**2” Gas cil.** Maschio Lungo /Male Long codice/code: PR003011 codice/code G8SL 	
2”1/2 Gas cil. Maschio/Male codice/code: PR003009 codice/code G10 	**Flexible Joint 2”** codice/code: PR003007 codice/code DN50 	**Flexible Joint 2”1/2** codice/code: PR003008 codice/code DN65 	**Flexible Joint 2”1/2 Øe=76** codice/code: PR003010 codice/code DN65SL 
1”1/2 Gas cil. Femmina/Female codice/code: PR003012 codice/code G6F 	**2” Gas cil.** Femmina/Female codice/code: PR003013 codice/code G8F 		

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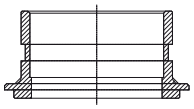
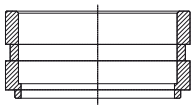
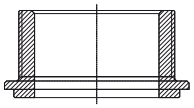
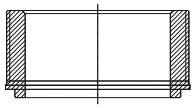
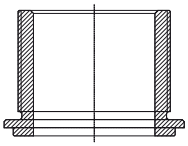
ODS 64 - Flexible Joint 2”1/2 codice/code: PR005001 codice/code L64 - DN65 	**ODS 76 - Flexible Joint 3”** codice/code: PR005002 codice/code L76 - DN80 
2”1/2 Gas. cil. Maschio/Male codice/code: PR005003 codice/code G10A 	**3” Gas. cil.** Maschio/Male codice/code: PR005004 codice/code G12 
2”1/2 Gas. cil. Maschio/Male codice/code: PR005005 codice/code G10ASL 	

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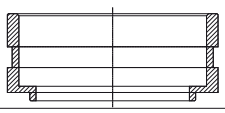
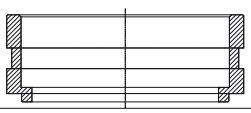
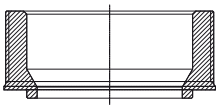
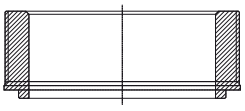
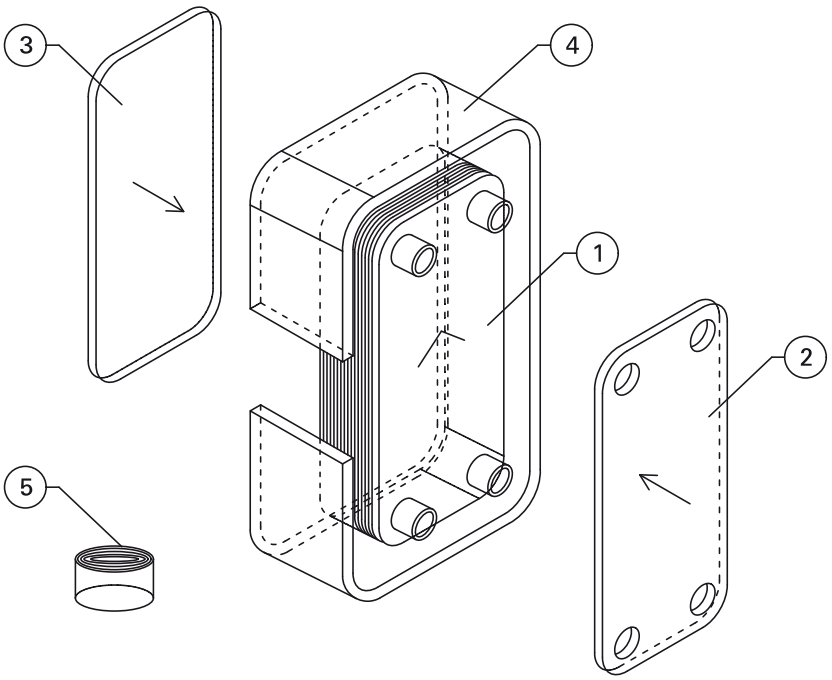
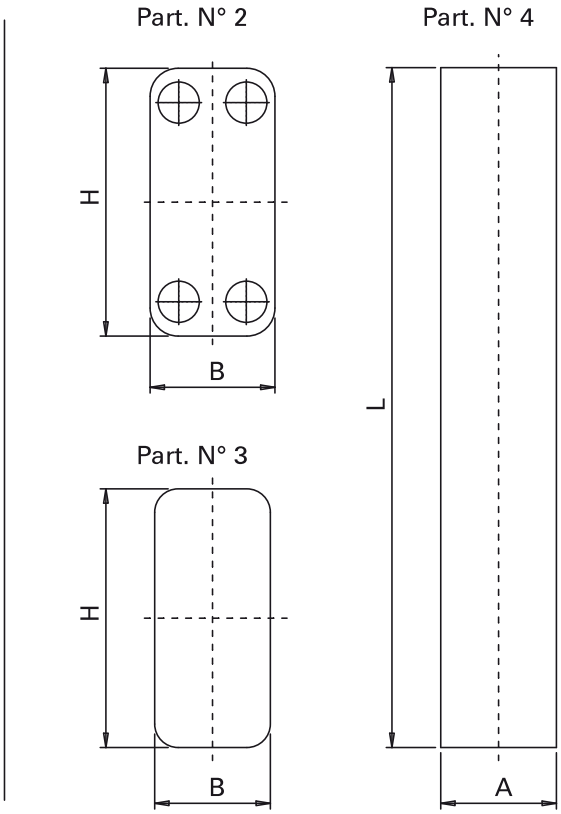
ODS 90 - Flexible Joint 3”1/2 codice/code: PR00.... codice/code L90 	**ODS 100 - Flexible Joint 4”** codice/code: PR00.... codice/code L100 
3”1/2 Gas. cil. Maschio/Male codice/code: PR00.... codice/code G14 	**4” Gas. cil.** Maschio/Male codice/code: PR00.... codice/code G16 





MATERIALE: POLIETILENE RETICOLATO ESPANSO
SPESSORE: 8 mm (a richiesta anche 16 mm)
TEMP. LAVORO: da -50°C a +105°C

MATERIAL: EXPANDED RETICULAR POLYETHILENE FOAM
THICKNESS: 8 mm (16 mm on request)
MIN. MAX WORKING TEMPERATURE: from -50°C to +105°C

ISOLAMENTO SCAMBIATORI DI CALORE / *INSULATION HEAT EXCHANGER*		
1	SCAMBIATORE DI CALORE SALDOBRASATO	*BRAZED PLATE HEATING HEAT EXCHANGER*
2	RIVESTIMENTO PARTE FRONTALE CON BIADESIVO	*FRONT ADHESIVE PANEL*
3	RIVESTIMENTO PARTE INFERIORE CON BIADESIVO	*REAR ADHESIVE PANEL*
4	RIVESTIMENTO PARTE PERIMETRALE CON BIADESIVO	*BORDER ADHESIVE PANEL*
5	STRISCIA COPRIGIUNTURA (NASTRO DI COPERTURA)	*COVER ADHESIVE STRIPE*

DIMENSIONI ISOLAMENTO / *INSULATION DIMENSIONS*						
TIPO SCAMBIATORE *HEAT EXCHANGERS TYPE*		CODICE COIBENTAZIONE *INSULATION CODE*	DIMENSIONI / *DIMENSIONS* (mm)			
MODELLO/ *MODEL*	N°PIASTRE/*PLATES*		A	L	B	H
TP09	0-20	PI800901	65	790	90	340
	22-40	PI800902	115			
	42-60	PI800903	165			
	62-80	PI800904	215			
TP22	0-20	PI802201	65	1050	90	470
	22-40	PI802202	115			
	42-60	PI802203	165			
	62-80	PI802204	215			
TP11 - TP12	0-20	PI801201	65	800	135	310
	22-40	PI801202	115			
	42-60	PI801203	165			
	62-80	PI801204	215			
TP71 - TP72	0-20	PI807201	65	1220	135	515
	22-40	PI807202	115			
	42-60	PI807203	165			
	62-80	PI807204	215			
TP82	0-20	PI808201	65	1275	135	540
	22-40	PI808202	115			
	42-60	PI808203	165			
	62-80	PI808204	215			
TP202	0-20	PI820201	65	1485	255	540
	22-40	PI820202	115			
	42-60	PI820203	165			
	62-80	PI820204	215			
	82-100	PI820205	265			
TP222	0-20	PI822201	65	1485	255	540
	22-40	PI822202	115			
	42-60	PI822203	165			
	92-80	PI822204	215			
	82-100	PI822205	265			
TP404	0-20	PI840401	75	2035	315	760
	22-40	PI840402	135			
	42-60	PI840403	195			
	62-80	PI840404	255			
	82-100	PI840405	310			
TP424	0-20	PI842401	75	2035	315	760
	22-40	PI842402	135			
	42-60	PI842403	195			
	62-80	PI842404	255			
	82-100	PI842405	310			

THERMOKEY

ISO 14001 TÜV SÜD ISO 9001

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THERMOKEY AUTHORIZED DEALER

BRAZED PLATE HEAT EXCHANGERS - RELEASE 00 - 03/2009