TCO08-19 Minichiller

Industrial oil chillers

COOLING CAPACITY

900-1100 - 1600-1900 - 2200-2550 W



AXIAL FAN

Axial fan, complete with electrical protection and safety grille.

HYDRAULIC CIRCUIT

Hydraulic circuit with gear pump without tank, with maximum available pressure 20 bar, 0-25 bar pressure gauge, regulation temperature sensor. Hydraulic safety with safety low- and high-pressure pressure switch.

ELECTRICAL PANEL

With main breaker, fused motor protection with LED visual fault indicator, voltage presence light.

MANAGEMENT AND CONTROL

The TX110 control unit manages the chiller's operation, providing warnings including high/low temperature alarms and a general serious fault alarm, with the display indicating if this refers to the refrigeration or hydraulic circuit. An on-off contact allows the machine to be switched on remotely. Control disconnect switch for switching on the machine.

PAINT/COATING

Standard colour: RAL 7035 textured.

MAIN ACCESSORIES (ref. page 189)

LTA - Operation at low ambient temperatures

FP - Polyurethane air filter

RU - Castors

TD - Differential fluid temperature management (two sensors)

BGC - Hot gas bypass for +/- 1 K temperature precision

FL - Customer flow switch

- Non-standard paint/coating

- Satin AISI 304 stainless steel framework

STRUCTURE

In powder-coated steel sheet, RAL 7035 textured finish. Easily removed panels

COMPRESSOR

Hermetic reciprocating compressor, cooled by the refrigerant, complete with thermal cut-out.

REFRIGERATION CIRCUIT

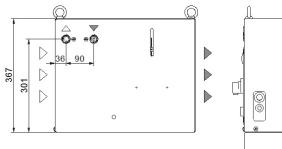
Complete with charging port, drier filter, expansion valve, high- and low-pressure safety pressure switch, R134a refrigerant.

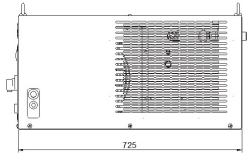
EVAPORATOR

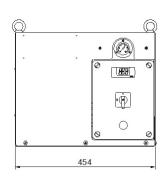
Brazed stainless-steel plate model.

AIR CONDENSER

Finned high-efficiency copper tube condensing coil, complete with safety grille.











Model		TC	008	TCC	012	TCO19	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Rated Cooling Capacity*	w	900	1100	1600	1900	2200	2550
Ambient temperature operating limits	°C		'	+15	- +45	'	
Settable oil temperature range	°C			+25	- +40		
Fluid type				ISO \	/G 32		
Temperature precision	К				⊦/-2		
Refrigerant gas	HFC			R1	34a		
Power supply							
Supply voltage	V ph Hz			230V (+/-10%) 1ph 50/60Hz		
Secondary supply voltage	V AC			2:	30		
Digital thermostat				TX	110		
Compressor							
Compressor type				Recipro	ocating		
Quantity - Number of circuits	no.			1	-1		
Max. power draw	kW	0.5	0.6	0.7	1.1	1.0	1.15
Max. current draw	А	2.8	3.1	4.1	4.3	6.0	6.5
Axial Fan							
Fan type				Ax	ial		
Quantity	no.		1		l		1
Air flow rate	m₃/h	10	000	10	00	1000	
Max. power draw	W	150	190	150	190	150	190
Max. current draw	А	0.66	0.85	0.66	0.85	0.66	0.85
Standard Pump							
Pump type				Gear	pump		
Quantity	no.		1		l		1
Nominal fluid flow rate	l/min	1	10	1	0	1	LO
Nominal available head	bar	2	20	2	0	2	20
Max. power draw	kW	0.	55	0.	55	0.	.55
Max. current draw	А	4.0	4.2	4.0	4.2	4.0	4.2
Storage tank capacity (optional)	l			1	0		
IN/OUT liquid connections	inch	1/2"					
Net weight (approximate)***	kg	59 61 6					
Width	mm	725					
Depth	mm			4.	54		
Height	mm	mm 367					
Sound pressure level**	dB(A)	5	56	5	6	5	56
IP rating	IP			4	4		

^{*} Data relating to operation under the following conditions: intake/outlet temperature 40/30°C, ISO VG 32 oil, ambient temperature 32°C. Cooling power refers to the evaporator unit.

Correction factors for calculating the cooling power												
Oil contlet to many and town	Fo	°C	20	25	30	35						
Oil outlet temperature	FO	factor	0.82	0.92	1	1.05						
Ambient Temperature	Fa	°C				15	20	25	32	35	40	45
Ambient Temperature	га	factor				1.16	1.1	1.05	1	0.97	0.91	0.84
0:14	F4	type	ISO	/G 10	ISO \	/G 22	ISO	/G 32	ISO	/G 46	ISO \	/G 68
Oil type	Ft	factor	1.	15	1.1		1		0.9		0.	82

Cooling power = Nominal cooling power x Fo x Fa x Ft



^{**} Sound pressure level at 50Hz, measured in a free hemispherical field at a distance of 1 m from the machine and 1.5 metres from the ground, per ISO 3746.

 $^{^{\}star\star\star} \ \text{Weight includes pallets and packaging (where provided for), with refrigerant charge, without storage tank and axial fans.}$

^{****} The electrical data refer to $\cos \phi$ = 0.8.

TCO31-41 Minichiller HP

Industrial oil chillers

COOLING CAPACITY

3000/3450 - 3900/4450 W



AXIAL FAN

Axial fan, complete with thermal cut-out and safety grille.

HYDRAULIC CIRCUIT

Hydraulic circuit with gear pump without tank, with maximum available pressure 20 bar, 0-25 bar pressure gauge, regulation temperature sensor. Hydraulic safety with safety low- and high-pressure pressure switch.

ELECTRICAL PANEL

With main breaker, fused motor protection with LED visual fault indicator, voltage presence light.

MANAGEMENT AND CONTROL

The TX110 control unit manages the chiller's operation, providing warnings including high/low temperature alarms and a general serious fault alarm, with the display indicating if this refers to the refrigeration or hydraulic circuit. An on-off contact allows the machine to be switched on remotely. Control disconnect switch for switching on the machine.

PAINT/COATING

Standard colour: RAL 7035 textured.

MAIN ACCESSORIES (ref. page 189)

LTA - Operation at low ambient temperatures

FP - Polyurethane air filter

RU - Castors

TD - Differential fluid temperature management (two sensors)

BGC - Hot gas bypass for +/- 1 K temperature precision

 ${\sf FL}$ - Customer flow switch

- Non-standard paint/coating

- Satin AISI 304 stainless steel framework

STRUCTURE

In powder-coated steel sheet, RAL 7035 textured finish. Easily removed panels

COMPRESSOR

Hermetic reciprocating compressor, cooled by the refrigerant, complete with thermal cut-out.

REFRIGERATION CIRCUIT

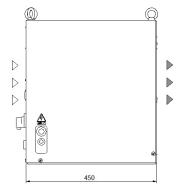
Complete with charging port, drier filter, expansion valve, high- and low-pressure safety pressure switch, thermostatic valve. R134a refrigerant.

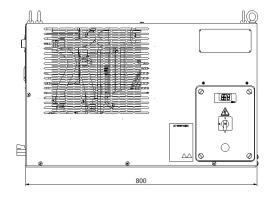
EVAPORATOR

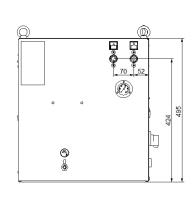
Brazed stainless-steel plate model.

AIR CONDENSER

Finned high-efficiency copper tube condensing coil, complete with safety grille.











Model		TCC	031	TC	041		
		50Hz	60Hz	50Hz	60Hz		
Rated Cooling Capacity*	W	3000	3450	3900	4450		
Ambient temperature operating limits	°C		+15 -	+45			
Settable oil temperature range	°C		+25 -	+40			
Fluid type			ISO V	'G 32			
Temperature precision	K		4	-/-2			
Refrigerant gas	HFC		R13	34a			
Power supply							
Supply voltage	V ph Hz		230V (+/-10%)	1ph 50/60Hz			
Secondary supply voltage	V AC		23	30			
Digital thermostat			TX1	.10			
Compressor							
Compressor type			Recipro	cating			
Quantity - Number of circuits	no.		1-	1			
Max. power draw	kW	1.15	1.5	1.6	1.92		
Max. current draw	А	6.1	8.1	7.2	8.4		
Axial Fan							
Fan type			Axi	ial			
Quantity	no.	1	L		1		
Air flow rate	m₃/h	2300	2650	2300	2650		
Max. power draw	W	180	250	180	250		
Max. current draw	А	0.81	1.1	0.81	1.1		
Standard Pump							
Pump type			Gear	oump			
Quantity	no.		1	-			
Nominal fluid flow rate	l/min	1	0	:	10		
Nominal available head	bar	2	0		20		
Max. power draw	kW	0.	55	0	.55		
Max. current draw	А	4.0	4.2	4.0	4.2		
IN/OUT liquid connections	inch		1/2	2"			
Net weight (approximate)***	kg	74 75					
Width	mm	800					
Depth	mm	450					
Height	mm	1 495					
			A) 57 60 57				
Sound pressure level**	dB(A)	57	60	57	60		

^{*} Data relating to operation under the following conditions: intake/outlet temperature 40/30°C, ISO VG 32 oil, ambient temperature 32°C. Cooling power refers to the evaporator unit.

Correction factors for calculating the cooling power												
Oil outlet town overture	F	°C	20	25	30	35						
Oil outlet temperature	Fo	factor	0.82	0.92	1	1.05						
Ambient Temperature	Fa	°C				15	20	25	32	35	40	45
Ambient remperature	га	factor				1.16	1.1	1.05	1	0.97	0.91	0.84
Oil house	F4	type	ISO \	/G 10	ISO \	/G 22	ISO V	/G 32	ISO \	/G 46	ISO VG 68	
Oil type	Ft	factor	1.	1.15		.1		1	0	0.82		
Cooling power = Nominal cooling power x Fo x Fa x Ft												



^{**} Sound pressure level at 50Hz, measured in a free hemispherical field at a distance of 1 m from the machine and 1.5 metres from the ground, per ISO 3746.

^{***} Weight includes pallets and packaging (where provided for), with refrigerant charge, without storage tank and axial fans.

^{****} The electrical data refer to $\cos \phi = 0.8$.

TCO15-36 Size 1

Industrial oil chillers

COOLING CAPACITY

1600-1900 - 2200-2550 - 3300-3900 W



AXIAL FAN

Axial fan, complete with thermal cut-out and safety grille.

HYDRAULIC CIRCUIT

Hydraulic circuit with gear pump without tank, with maximum available pressure 20 bar, pressure limiting valve calibrated at 10 bar, 0-25 bar pressure gauge, regulation temperature sensor. Hydraulic safety with safety low- and high-pressure pressure switch.

ELECTRICAL PANEL

With main disconnect switch, fused motor protection.

MANAGEMENT AND CONTROL

The TX110 control unit manages the chiller's operation, providing warnings including high/low temperature alarms and a general serious fault alarm, with the display indicating if this refers to the refrigeration or hydraulic circuit. An on-off contact allows the machine to be switched on remotely. Control disconnect switch for switching on the machine.

PAINT/COATING

Standard colour: RAL 7035 textured.

MAIN ACCESSORIES (ref. page 189)

HR - Oil heating element

LTA - Operation at low ambient temperatures

FP - Polyurethane air filter

RU - Casto

TD - Differential fluid temperature management (two sensors)

BGC - Hot gas bypass for +/- 1 K temperature precision

FL - Customer flow switch

- Non-standard paint/coating
- Satin AISI 304 stainless steel framework

STRUCTURE

In powder-coated steel sheet, RAL 7035 textured finish. Easily removed panels

COMPRESSOR

Hermetic reciprocating compressor, cooled by the refrigerant, complete with electrical protection.

REFRIGERATION CIRCUIT

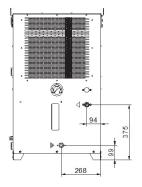
Complete with charging port, drier filter, thermostatic valve, high- and low-pressure pressure switch, R134a refrigerant.

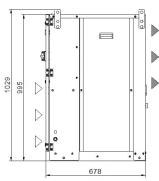
EVAPORATOR

Brazed stainless-steel plate model.

AIR CONDENSER

Finned high-efficiency copper tube condensing coil, complete with safety grille.











Model		TC	015	TCC)22	TCO36		
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	
Rated Cooling Capacity*	W	1600	1900	2200	2550	3300	3900	
Ambient temperature operating limits	°C		'	+15 -	+45			
Settable oil temperature range	°C			+25 -	+40			
Fluid type				ISO V	'G 32			
Temperature precision	К			4	-/-2			
Refrigerant gas	HFC			R13				
Power supply								
Supply voltage	V ph Hz			230V (+/-10%)	1ph 50/60Hz			
Secondary supply voltage	V AC			23	30			
Digital thermostat				TX1	10			
Compressor								
Compressor type				Recipro	cating			
Quantity - Number of circuits	no.			1.				
Max. power draw	kW	1.03	1.06	1.15	1.5	1.73	2.2	
Max. current draw	A	5.6	5.8	6.1	8.1	9.4	12	
Axial Fan		5.5	5.5	5.2	0.1			
Fan type				Ax	ial			
Quantity	no.							
Air flow rate	m₃/h	2300	- 2650	2300 -		2300 - 2650		
Max. power draw	kW	0.18	0.25	0.18	0.25	0.18	0.25	
Max. current draw	A	0.10	1.1	0.81	1.1	0.10	1.1	
Centrifugal Fan (optional)		0.01	1.1	0.01	1,1	0.01	1.1	
Fan type				Centr	ifugal			
Quantity	no.							
Air flow rate	m₃/h	2100	- 2400	2100 -		2100	2100 - 2400	
Available head	Pa	2200	2.00	25				
Max. power draw	kW	0.15	0.21	0.15	0.21	0.15	0.21	
Max. current draw	A	0.35	0.37	0.35	0.37	0.35	0.37	
Standard Pump	,,,	0.55	0.51	0.55	0.51	0.55	0.51	
Pump type				Gear	numn			
Quantity	no.		1	1	· ·		1	
Nominal fluid flow rate	l/min		.0	1			.0	
Nominal available head	bar		10	2			20	
Max. power draw	kW		55	0.5			55	
Max. current draw	A	4.0	4.2	4.0	4.2	4.0	4.2	
Storage tank capacity (optional)	ι			3	0			
IN/OUT liquid connections	inch			3/-				
Net weight (approximate)***	kg	130 132				1	32	
Width	mm							
Depth	mm							
Height	mm							
Sound pressure level**	dB(A)	57	- 60	57 -		57	- 60	
IP rating	IP			4	4	1		
-	1							

^{*} Data relating to operation under the following conditions: intake/outlet temperature 40/30°C, ISO VG 32 oil, ambient temperature 32°C. Cooling power refers to the evaporator unit.

^{****} The electrical data refer to $\cos \phi$ = 0.8.

Correction factors for calculating the cooling power												
Oil outlet temperature	F	°C	20	25	30	35						
Oil outlet temperature	Fo	factor	0.82	0.92	1	1.05						
Ambient Temperature	Fa	°C				15	20	25	32	35	40	45
Ambient Temperature	га	factor				1.16	1.1	1.05	1	0.97	0.91	0.84
Oll house	F4	type	ISO \	/G 10	ISO \	/G 22	ISO \	/G 32	ISO \	/G 46	ISO V	/G 68
Oil type	Ft	factor	1.	1.15		.1		1	0	.9	0.82	
Cooling power = Nominal cooling power x Fo x Fa x Ft												



^{**} Sound pressure level at 50Hz, measured in a free hemispherical field at a distance of 1 m from the machine and 1.5 metres from the ground, per ISO 3746.

^{***} Weight includes pallets and packaging (where provided for), with refrigerant charge, without storage tank and axial fans.

TCO22-55 Size 1 Three Phase

Industrial oil chillers

COOLING CAPACITY

2200 - 3300 - 4400 - 5300 W



AXIAL FAN

Axial fan, complete with thermal cut-out and safety grille

HYDRAULIC CIRCUIT

Hydraulic circuit with gear pump without tank, with maximum available pressure 20 bar, pressure limiting valve calibrated at 10 bar, 0-25 bar pressure gauge, regulation temperature sensor. Hydraulic safety with safety low- and high-pressure pressure switch.

ELECTRICAL PANEL

With main disconnect switch, relay motor protection, phase sequence relays.

MANAGEMENT AND CONTROL

The TX110 control unit manages the chiller's operation, providing warnings including high/low temperature alarms and a general serious fault alarm, with the display indicating if this refers to the refrigeration or hydraulic circuit. An on-off contact allows the machine to be switched on remotely. Control disconnect switch for switching on the machine.

PAINT/COATING

Standard colour: RAL 7035 textured.

MAIN ACCESSORIES (ref. page 189)

HR - Oil heating element

LTA - Operation at low ambient temperatures

FP - Polyurethane air filter

RU - Castor

TD - Differential fluid temperature management (two sensors)

BGC - Hot gas bypass for +/- 1 K temperature precision

FL - Customer flow switch

- Non-standard paint/coating
- Satin AISI 304 stainless steel framework

STRUCTURE

In powder-coated steel sheet, RAL 7035 textured finish. Easily removed panels

COMPRESSOR

Hermetic reciprocating compressor, cooled by the refrigerant, complete with thermal cut-out.

REFRIGERATION CIRCUIT

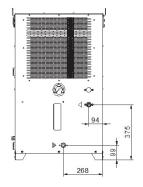
Complete with charging port, drier filter, thermostatic valve, high- and low-pressure pressure switch, R134a refrigerant.

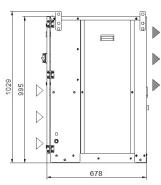
EVAPORATOR

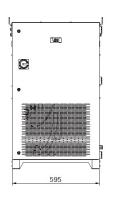
With brazed stainless-steel plates with protection against freezing.

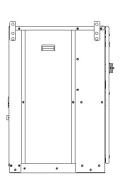
AIR CONDENSER

Finned high-efficiency copper tube condensing coil, complete with safety grille.











Model		TC022	TCO36	TCO44	TCO55					
Rated Cooling Capacity*	w	2200	3300	4400	5300					
Ambient temperature operating limits	°C		+15	- +45						
Settable oil temperature range	°C		+25	- +40						
Fluid type		ISO VG 32								
Temperature precision	К	+/-2								
Refrigerant gas	HFC	R134a								
Power supply										
Supply voltage	V ph Hz		400V (+/-10°	%) 3ph 50Hz						
Secondary supply voltage	V AC		23	30						
Digital thermostat			TX:	110						
Compressor										
Compressor type			Recipro	ocating						
Quantity - Number of circuits	no.		1 -	- 1						
Max. power draw	kW	1.50	1.72	2.32	2.61					
Max. current draw	А	2.71	3.10	4.2	4.7					
Axial Fan										
Fan type			Ax	ial						
Quantity	no.	1	1	1	1					
Air flow rate	m₃/h	2300	2300	2050	2050					
Available head	Pa		25	50						
Max. power draw	kW	0.18	0.18	0.18	0.18					
Max. current draw	А	0.81	0.81	0.81	0.81					
Centrifugal Fan (optional)										
Fan type			Centr	ifugal						
Quantity	no.	1	1	1	1					
Air flow rate	m₃/h	2100 - 2400	2100 - 2400	2100 - 2400	2100 - 2400					
Max. power draw	W	145 - 205	145 - 205	145 - 205	145 - 205					
Max. current draw	A	0.35 - 0.37	0.35 - 0.37	0.35 - 0.37	0.35 - 0.37					
Standard Pump										
Pump type										
Quantity			Gear	pump						
Quantity	no.	1	Gear	pump 1	1					
Nominal fluid flow rate	no.	1 10		-	1 20					
			1	1						
Nominal fluid flow rate	l/min	10	1 10	1 20	20					
Nominal fluid flow rate Nominal available head	l/min bar	10 20	1 10 20	1 20 20	20 20					
Nominal fluid flow rate Nominal available head Max. power draw	l/min bar kW	10 20 0.75	1 10 20 0.75	1 20 20 20 1.1	20 20 1.1					
Nominal fluid flow rate Nominal available head Max. power draw Max. current draw Storage tank capacity (optional)	l/min bar kW A	10 20 0.75	1 10 20 0.75 1.7	1 20 20 1.1 2.6	20 20 1.1					
Nominal fluid flow rate Nominal available head Max. power draw Max. current draw	l/min bar kW A	10 20 0.75	1 10 20 0.75 1.7	1 20 20 1.1 2.6	20 20 1.1					
Nominal fluid flow rate Nominal available head Max. power draw Max. current draw Storage tank capacity (optional) IN/OUT liquid connections Net weight (approximate)***	l/min bar kW A	10 20 0.75	1 10 20 0.75 1.7	1 20 20 1.1 2.6	20 20 1.1					
Nominal fluid flow rate Nominal available head Max. power draw Max. current draw Storage tank capacity (optional) IN/OUT liquid connections Net weight (approximate)***	l/min bar kW A	10 20 0.75 1.7	1 10 20 0.75 1.7 3 3/ 134	1 20 20 1.1 2.6 20 4" 136 35	20 20 1.1 2.6					
Nominal fluid flow rate Nominal available head Max. power draw Max. current draw Storage tank capacity (optional) IN/OUT liquid connections Net weight (approximate)*** Width Depth	l/min bar kW A	10 20 0.75 1.7	1 10 20 0.75 1.7 3 3/ 134	1 20 20 1.1 2.6 2.6 2.6 2.6 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	20 20 1.1 2.6					
Nominal fluid flow rate Nominal available head Max. power draw Max. current draw Storage tank capacity (optional) IN/OUT liquid connections Net weight (approximate)*** Width Depth Height	l/min bar kW A l inch kg mm mm	10 20 0.75 1.7	1 10 20 0.75 1.7 3 3/ 134	1 20 20 1.1 2.6 26 27 28 29 29 29 29 29 29 29 29 29 29 29 29 29	20 20 1.1 2.6					
Nominal fluid flow rate Nominal available head Max. power draw Max. current draw Storage tank capacity (optional) IN/OUT liquid connections Net weight (approximate)*** Width Depth	l/min bar kW A l inch kg mm mm	10 20 0.75 1.7	1 10 20 0.75 1.7 3 3/ 134	1 20 20 1.1 2.6 2.6 2.6 2.6 2.5 2.5 57	20 20 1.1 2.6					

^{*} Data relating to operation under the following conditions: intake/outlet temperature 40/30°C, ISO VG 32 oil, ambient temperature 32°C. Cooling power refers to the evaporator unit.

Correction factors for calculating the cooling power												
Oil outlet town overture	F	°C	20	25	30	35						
Oil outlet temperature	Fo	factor	0.82	0.92	1	1.05						
Ambient Temperature	Fa	°C				15	20	25	32	35	40	45
Ambient remperature	га	factor				1.16	1.1	1.05	1	0.97	0.91	0.84
Oil house	F4	type	ISO \	/G 10	ISO \	/G 22	ISO V	/G 32	ISO \	/G 46	ISO VG 68	
Oil type	Ft	factor	1.	1.15		.1		1	0	0.82		
Cooling power = Nominal cooling power x Fo x Fa x Ft												



^{**} Sound pressure level, measured in a free hemispherical field at a distance of 1 m from the machine and 1.5 metres from the ground, per ISO 3746.

^{***} Weight includes pallets and packaging (where provided for), with refrigerant charge, without storage tank and axial fans.

^{****} The electrical data refer to $\cos \phi = 0.8$.

TCO56-A0 Size 2

Industrial oil chillers

COOLING CAPACITY

6000 - 8100 - 9200 - 10900 W



AIR CONDENSER

Finned high-efficiency copper tube condensing coil, complete with safety grille.

AXIAL FAN

Axial fan, complete with thermal cut-out and safety grille.

HYDRAULIC CIRCUIT

Hydraulic circuit with gear pump without tank, with maximum available pressure 20 bar, pressure limiting valve calibrated at 10 bar, 0-25 bar oil pressure gauge, regulation sensor.

ELECTRICAL PANEL

With main disconnect switch, relay motor protection, phase sequence relays.

MANAGEMENT AND CONTROL

The TX200 control unit manages the operation of the chiller and provides complete operator alarm diagnostics. An on-off contact allows the machine to be switched on remotely. Illuminated control selector. Possibility of remote display for machine regulation.

PAINT/COATING

Standard colour: RAL 7035 textured.

MAIN ACCESSORIES (ref. page 189)

HR - Oil heating element

LTA - Operation at low ambient temperatures

FP - Polyurethane air filter

RU - Castors

TD - Differential fluid temperature management (two sensors)

BGC - Hot gas bypass for +/- 1 K temperature precision

FL - Customer flow switch

- Non-standard paint/coating
- Satin AISI 304 stainless steel framework

STRUCTURE

In powder-coated steel sheet, RAL 7035 textured finish. Easily removed panels

COMPRESSOR

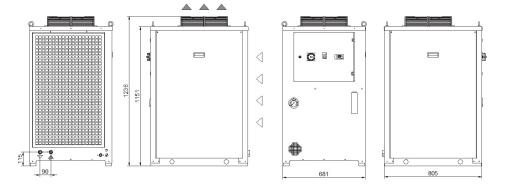
Hermetic scroll compressor, cooled by the refrigerant, complete with thermal cut-out.

REFRIGERATION CIRCUIT

Complete with charging port, liquid receiver, drier filter, thermostatic valve, high- and low-pressure pressure switch, R134a refrigerant.

EVAPORATOR

With brazed stainless-steel plates and temperature sensor for protection against freezing.







Model		TCO56	TCO70	TCO91	TCOA0				
Rated Cooling Capacity*	w	6000	8100	9200	10900				
Ambient temperature operating limits	°C		+15	- +45					
Settable oil temperature range	°C	+25 - +40							
Fluid type		ISO VG 32							
Temperature precision	К			+/-2					
Refrigerant gas	HFC		R1	34a					
Power supply									
Supply voltage	V ph Hz		400V (+/-10 ⁴	%) 3ph 50Hz					
Secondary supply voltage	V		230-2	4 V AC					
Digital thermostat			TX	200					
Compressor									
Compressor type			Sc	roll					
Quantity - Number of circuits	no.		1	- 1					
Max. power draw	kW	3.7	3.9	4.4	4.6				
Max. current draw	A	5.4	6.7	7.2	7.5				
Axial Fan									
Fan type			Ax	rial					
Quantity	no.	1	1	1	1				
Air flow rate	m₃/h	2800	2800	2800	2800				
Max. power draw	W	130	130	130	130				
Max. current draw	A	0.6	0.6	0.6	0.6				
Centrifugal Fan (optional)									
Fan type			Centr	rifugal					
Quantity	no.			1					
Air flow rate	m₃/h		28	800					
Available head	Pa	25	50	2	230				
Max. power draw	kW		0.	60					
Max. current draw	A		2	3					
Standard Pump									
Pump type			Gear	pump					
Quantity	no.	1	1	1	1				
Nominal fluid flow rate	l/min	20	20	40	40				
Nominal available head	bar	20	20	20	20				
Max. power draw	kW	1.1	1.1	1.9	1.9				
Max. current draw	A	3	3	4.6	4.6				
Storage tank capacity (optional)	l			50					
IN/OUT liquid connections	inch			/4"	T				
Net weight (approximate)***	kg	145	155	175	185				
Width	mm			81					
Depth	mm			05					
Height	mm			236	T				
Sound pressure level**	dB(A)	60	60	60	60				
IP rating	IP			14					

^{*} Data relating to operation under the following conditions: intake/outlet temperature 40/30°C, ISO VG 32 oil, ambient temperature 32°C. Cooling power refers to the evaporator unit.

Correction factors for calculating the cooling power												
Oil contlet to many and town	F	°C	20	25	30	35						
Oil outlet temperature	Fo	factor	0.82	0.92	1	1.05						
Abi		°C				15	20	25	32	35	40	45
Ambient Temperature	Fa	factor				1.16	1.1	1.05	1	0.97	0.91	0.84
0:14		type	ISO \	/G 10	ISO \	/G 22	ISO \	/G 32	G 32 ISO VG 46			/G 68
Oil type	Ft	factor	1.	1.15		.1		1	0	.9	0.82	
Cooling power = Nominal cooling power x Fo x Fa x Ft												



^{**} Sound pressure level, measured in a free hemispherical field at a distance of 1 m from the machine and 1.5 metres from the ground, per ISO 3746.

 $^{^{\}star\star\star} \ \text{Weight includes pallets and packaging (where provided for), with refrigerant charge, without storage tank and axial fans.}$

^{****} The electrical data refer to $\cos\phi$ = 0.8.