HFO coolers

Succeed in your HFO gas transition : our coolers are already set !

RFC 12 – 20

R1234yf

RFI 30

R1234ze

RFI 150

R1234ze

RFI 250 - 350

R1234ze

RFI 500 - 700

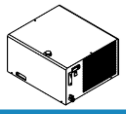
R1234ze

HFO coolers

DESCRIPTION

Compatible with the new F-gas standards, our HFO-gas coolers also have improved performance!

TECHNICAL SPECIFICATIONS

			RFC 12	RFC 20	RFI 30	RFI 150
Power supply		V-Hz	230V–1–50Hz	230V–1–50Hz	230V-1-50Hz	400V-3-50Hz
Cooling capacity*		kW	1,2	2,2	3,5	14,7
Electrical power absorbed		kW	1,5	2,1	3,3	9,1
Electrical intensity	Nominale	A	7,5	10,4	15,0	15,7
	Starting	A	24,5	38,5	55,0	95,0
Refrigerant gas type			**R1234yf – GWP 4**	**R1234yf – GWP 4**	**R1234ze – GWP 7**	**R1234ze – GWP 7**
Refrigerant gas load		kg	0,30	0,35	1,1	5,5
Compressor		type	Hermetic piston SECOP SC21G	Hermetic piston Tecumseh AJ4511N	Hermetic piston Tecumseh FH4525N	Semi-hermetic piston Bitzer 4VES-7Y
Hydraulic flow (min/max)		l/mn	3 / 41	3 / 41	10 / 70	10 / 70
Hydraulic pressure –standard- (min/max)		bar	1,0 / 2,6	1,0 / 2,6	1,3 / 3,2	1,3 / 3,2
Hydraulic pressure –High Pressure- (min/max)		bar	1,5 / 4,4	1,5 / 4,4	1,6 / 4,1	1,6 / 4,1
Hydraulic tank		L	10	30	100	150
Dimensions	H	mm	360	450	1200	1520
	L	mm	550	660	670	1100
	P	mm	660	760	760	780
Weight empty		kg	60	75	140	380
PED category			§4.3	I	I	I

** 10°C glycol water, 32°C ambiant temp.*

Technical data is non-contractual and is revalidated by our engineering department for each order and project.

STANDARD FEATURES

Cooling circuit
- Hermetic piston compressor (< RFI30)
- Bitzer semi-hermetic piston compressor
- Coil evaporator for RFC
- Brazed plate evaporator for RFI
- PED file (for Category 1)

Electrical and control cabinet
- Front panel switch or disconnect switch
- Eliwell or Carel electronic controller
- On/off contact
- Main fault dry contact

Hydraulic circuit
- Non-pressurized insulated PE tank
- Visible water level indicator on front panel
- Centrifugal pump
- Pressure gauge on the front panel (RFI)

Mechanical frame
- One-piece structure with painted cover
- RAL 7032 (RFC) & RAL 7035 (RFI)
- Compressor mounted on supports
- Metallic nameplate compliant with CE



OUR ADDITIONAL SERVICES

- Version for outdoor installation and operation
- Proportional condensation control and floating high pressure
- Refrigeration instrumentation (pressure switches, transducers)
- Cooling capacity modulation (for Bitzer compressor)
- Bypass, manual or electronic flow control
- Custom-designed, high-pressure, or variable-speed pump
- All-stainless-steel circuit and Spirec evaporator for aggressive refrigerants
- Configuration with/without tank & pump
- Modbus TCP/IP or RS485 controller, differential control
- Feedback on level, flow rate, pressure, temperature, etc.
- Harting connector
- 60 Hz versions, or other industrial power supplies (with transformer)
- 304 or 316L stainless steel frame
- Castlers
- Special paint finish, anti-corrosion treatment
- Custom frame for integration

HFO coolers

DESCRIPTION

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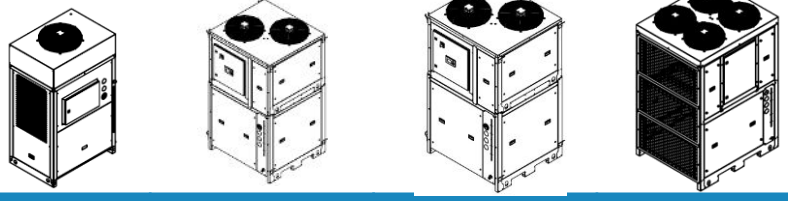

TECHNICAL SPECIFICATIONS

			RFI 250	RFI 350	RFI 500	RFI 700
Power supply		V-Hz	400V-3-50Hz	400V-3-50Hz	400V-3-50Hz	400V-3-50Hz
Cooling capacity*		kW	22,0	36,5	48,2	66,8
Electrical power absorbed		kW	12,1	20,0	28,1	41,9
Electrical intensity	Nominale	A	21,0	38,0	51,2	74,0
	Starting	A	117	150	155	230
Refrigerant gas type			R1234ze – GWP 7	R1234ze – GWP 7	R1234ze – GWP 7	R1234ze – GWP 7
Refrigerant gas load		kg	7,0	7,0	11,0	15,3
Compressor		type	Semi-hermetic piston Bitzer 4NES-14Y	Semi-hermetic piston Bitzer 6JE-25Y	Semi-hermetic piston Bitzer 6GE-34	Semi-hermetic piston Bitzer 6FE-44
Hydraulic flow (min/max)		l/mn	20 / 100	20 / 100	50 / 250	50 / 250
Hydraulic pressure –standard- (min/max)		bar	1,6 / 2,7	1,6 / 2,7	1,5 / 3,1	1,5 / 3,1
Hydraulic pressure –High Pressure- (min/max)		bar	2,8 / 4,7	2,8 / 4,7	2,6 / 4,9	2,6 / 4,9
Hydraulic tank		L	150	150	240	240
Dimensions	H	mm	1500	1900	2200	2200
	L	mm	1820	1100	1100	1450
	P	mm	1100	1200	1200	1200
Weight empty		kg	460	710	780	930
PED category			I	I	I	I

** 10°C glycol water, 32°C ambiant temp.*

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STANDARD FEATURES

Cooling circuit
- Bitzer semi-hermetic piston compressor
- Microchannel condenser + epoxy coating (expt 250)
- Protected brazed plate evaporator
- All-season operation (except 250)
- PED file (for Category 1)

Electrical and control cabinet
- Front panel disconnect switch
- Eliwell or Carel electronic regulator
- On/off contact
- Main fault dry contact

Hydraulic circuit
- Insulated, non-pressurized stainless steel tank
- Visible water level indicator on the front panel
- Grundfos centrifugal pump
- Pressure gauge on the front panel (RFI)

Mechanical frame
- Monoblock structure with painted cover
- RAL 7035 (RFI)
- Bitzer compressor mounted on supports
- CE compliant metal nameplate

OUR ADDITIONAL SERVICES

- Floating HP
- Refrigeration instrumentation (pressure switches, transducers)
- Cooling capacity modulation via Bitzer Varistep
- Bitzer frequency inverter
- Bypass, manual or electronic flow control
- Custom-designed, redundant, or variable-speed pump
- All-stainless steel circuit and Spirec evaporator for aggressive refrigerants
- Configuration with/without tank & pump
- Modbus TCP/IP or RS485 controller, differential control
- Feedback on level, flow rate, pressure, temperature, etc.
- Harting power and control sockets
- 60 Hz versions, or other industrial power supplies (with transformer)
- 304 or 316L stainless steel frame
- Castlers
- Special paint finish, anti-corrosion treatment
- Remote free cooling, controlled by a central controller

HFO coolers

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