

FRIGA-BOHN®

COMPACT

Octagon and Scroll
compressor rack

HFC



حسونة للتبريد

Hassounah Refrigeration

|||| MT 16 - 110 kW
|||| LT 6 - 38 kW



Modular rack to best meet the needs of your application, available with Scroll or Semi-Hermetic Octagon compressors.

Compact to save space.

CONTROL DEVICES

- # 1 LP general safety pressure switch
- # 1 or 2 HP cartridge pressure switch(es) with automatic reset per compressor (according to standard EN 378-2: 2009).
- # 2 pressure gages (LP+HP)
- # 1 oil differential pressure switch per compressor for semi-hermetic reciprocating models of compressor 4TC to 4NC.

OPTIONS

BPS

Safety pack

LP safety pressure switch per compressor.

HPS

HP general safety pressure switch.

Regulation pack

BPI

LP pressure switch (automatic reset).

HPS

Additional HP pressure switches.

CDP

HP/LP pressure sensors signal 4-20 mA.

ALF

Height-adjustable float coolant level alarm.

ALR

Optoelectronic refrigerant level alarm.

FRAME

One-piece frame designed to avoid vibration problems.

OPTIONS

PAV

Anti-vibration pads.

[KIT TO INSTALL](#)

ARM

Electrical cabinet.

[CONTACT US](#)

CONNECTION PACK

1 connecting valve on the suction, the delivery and the liquid outlet.



COMPRESSORS

- # Scroll technology (Copeland) or Octagon semi-hermetic reciprocating technology (Bitzer).
- # Equipped with suction and delivery shut-off valves, crankcase heater and rigid suspension elements.
- # Cylinder head fan for semi-hermetic reciprocating models in negative application.

MANIFOLDS

- # Copper suction and delivery.
- # Polypropylene collar on the suction side and high temperature resistant polyamide on the delivery side.
- # A general filter unit on the suction side.

OPTIONS

BDR

Condensate drain pan under suction manifolds.



Do you have a specific request?
Contact us to design the unit
that meets your needs.

OIL LINE

- # Oil separator and receiver with high and low indicator.
- # Oil manifold with flexible connection at the ends.
- # LP oil return line with filter and indicator.
- # Float oil level regulator with shut-off valve per compressor for SH and electronic for Scroll.
- # Degassing valve.

OPTIONS

TXL

Electronic oil level controllers (Compact Octagon).

LIQUID STATION

- # Liquid station delivered separately.
- # 2 inlet/outlet shut-off valves.
- # Liquid outlet equipped with a removable filter dryer box and an indicator.
- # Single or double safety valve (according to PED).

OPTIONS

BAC

Liquid separator (only for semi-hermetic compressor).

RLS

Oversized liquid receiver.

SSD

Double safety valve with 3-way valve (for receivers < 120 litres).

COM 2_(A) P_(B) 4EES-4Y_(C)

(A) Number of compressors
 (B) **P** = Positive range - **N** = Negative range
 (C) Compressor type

The COMPACT is available with HFCs. For more information, please consult our software.

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Positive range

COM ...			2P 4EES-4Y	2P 4DES-5Y	2P 4CES-6Y	3P 4EES-4Y	3P 4DES-5Y	2P 4TES-9Y	4P 4EES-4Y	2P 4PES-12Y	3P 4CES-6Y
Power (l)	R449A	kW	21,6	25,4	31,4	32,4	38,0	39,3	43,2	44,4	47,1
Power consumption (l)		kW	9,5	11,1	13,6	14,3	16,7	16,6	19,1	18,4	20,5
Power (l)	R404A	kW	22,2	26,5	32,0	33,3	39,7	40,2	44,4	45,7	48,1
Power consumption (l)		kW	10,7	12,6	15,0	16,0	18,9	18,6	21,3	20,5	22,5
Compressor		Nb	2	2	2	3	3	2	4	2	3
Max. current drawn		A	20	25	32	31	38	39	41	43	48
Receiver volume		l.	45	45	60	60	60	60	60	60	60
Connection pack standard option	Delivery	Ø	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8
	Suction	Ø	1"5/8	1"5/8	1"5/8	1"5/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8
	Liquid	Ø	7/8"	7/8"	7/8"	7/8"	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8
Rack weight		kg	374	383	390	472	482	481	573	491	498
Receiver size	L	mm	666	666	666	666	666	666	666	666	666
	D	mm	402	402	402	402	402	402	402	402	402
	H	mm	1137	1137	1338	1338	1338	1338	1338	1338	1338
Receiver weight		kg	60	60	80	80	80	80	80	80	80

COM ...			4P 4DES-5Y	2P 4NES-14Y	3P 4TES-9Y	4P 4CES-6Y	3P 4PES-12Y	4P 4TES-9Y	3P 4NES-14Y	4P 4PES-12Y	4P 4NES-14Y
Power (l)	R449A	kW	50,7	53,4	58,9	62,8	66,7	78,6	80,2	88,9	106,9
Power consumption (l)		kW	22,2	22,3	24,9	27,3	27,5	33,2	33,4	36,7	44,5
Power (l)	R404A	kW	53,0	54,8	60,4	64,1	68,6	80,5	82,1	91,4	109,5
Power consumption (l)		kW	25,2	25,0	27,8	30,0	30,8	37,1	37,4	41,1	49,9
Compressor		Nb	4	2	3	4	3	4	3	4	4
Max. current drawn		A	50	52	59	64	65	78	77	86	103
Receiver volume		l.	60	60	60	60	120	120	120	120	120
Connection pack standard option	Delivery	Ø	1"3/8	1"3/8	1"3/8	1"3/8	1"3/8	1"5/8	1"5/8	1"5/8	1"5/8
	Suction	Ø	2"1/8	2"1/8	2"1/8	2"1/8	2"5/8	2"5/8	2"5/8	2"5/8	2"5/8
	Liquid	Ø	1"1/8	1"1/8	1"1/8	1"1/8	1"3/8	1"3/8	1"3/8	1"3/8	1"3/8
Rack weight		kg	589	504	637	608	656	794	670	815	823
Receiver size	L	mm	666	666	666	666	714	714	714	714	714
	D	mm	402	402	402	402	455	455	455	455	455
	H	mm	1338	1338	1338	1338	1834	1834	1834	1834	1834
Receiver weight		kg	80	80	80	80	120	120	120	120	120

(l) Evaporating temperature **-10 °C** / Ambient temperature **+45 °C** - Superheat: 10K - Subcool: 3K.

R404A is a refrigerant only available for non-EU markets (not compatible with F-Gas).

COM 2_(A) P_(B) 4EES-4Y_(C)

(A) Number of compressors

(B) **P** = Positive range - **N** = Negative range

(C) Compressor type

The COMPACT is available with HFCs.
For more information, please consult
our software.

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Negative range

COM ...			2N 4EES-4Y	2N 4DES-5Y	2N 4CES-6Y	3N 4EES-4Y	2N 4TES-9Y	3N 4DES-5Y	2N 4PES-12Y	4N 4EES-4Y	3N 4CES-6Y
Power (1)	R449A	kW	5,6	6,5	8,4	8,4	9,9	9,8	10,5	11,2	12,6
Power consumption (1)		kW	4,3	5,0	6,5	6,4	7,2	7,5	7,5	8,5	9,7
Power (1)	R404A	kW	6,6	7,9	9,3	9,9	11,2	11,8	12,0	13,2	13,9
Power consumption (1)		kW	5,5	6,6	7,7	8,3	8,9	9,9	9,5	11,1	11,6
Compressor		Nb	2	2	2	3	2	3	2	4	3
Max. current drawn		A	15	19	25	23	27	29	29	30	38
Receiver volume		l.	45	45	45	45	45	45	45	45	45
Connection pack standard option	Delivery	Ø	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8
	Suction	Ø	1"3/8	1"3/8	1"5/8	1"5/8	1"5/8	1"5/8	1"5/8	1"5/8	1"5/8
	Liquid	Ø	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
Rack weight		kg	371	376	388	470	474	476	484	566	492
Receiver dimensions	L	mm	666	666	666	666	666	666	666	666	666
	D	mm	402	402	402	402	402	402	402	402	402
	H	mm	1137	1137	1137	1137	1137	1137	1137	1137	1137
Receiver weight		kg	60	60	60	60	60	60	60	60	60

COM ...			2N 4NES-14Y	4N 4DES-5Y	3N 4TES-9Y	3N 4PES-12Y	4N 4CES-6Y	4N 4TES-9Y	3N 4NES-14Y	4N 4PES-12Y	4N 4NES-14Y
Power (1)	R449A	kW	13,6	13,1	14,9	15,8	16,9	19,9	20,3	21,0	27,1
Power consumption (1)		kW	9,4	10,1	10,8	11,2	13,0	14,4	14,2	14,9	18,9
Power (1)	R404A	kW	15,2	15,8	16,7	18,0	18,6	22,3	22,8	24,0	30,4
Power consumption (1)		kW	12,1	13,2	13,3	14,2	15,4	17,7	18,1	18,9	24,1
Compressor		Nb	2	4	3	3	4	4	3	4	4
Max. current drawn		A	35	39	40	44	51	54	52	58	70
Receiver volume		l.	60	60	60	60	60	60	60	60	60
Connection pack standard option	Delivery	Ø	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8
	Suction	Ø	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"1/8	2"5/8	2"5/8
	Liquid	Ø	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	1"1/8	1"1/8
Rack weight		kg	490	577	624	634	597	769	646	796	805
Receiver size	L	mm	666	666	666	666	666	666	666	666	666
	D	mm	402	402	402	402	402	402	402	402	402
	H	mm	1338	1338	1338	1338	1338	1338	1338	1338	1338
Receiver weight		kg	80	80	80	80	80	80	80	80	80

(1) Evaporating temperature **-35 °C** / Ambient temperature **+40 °C** - Superheat: 10K - Subcool: 3K.

R404A is a refrigerant only available for non-EU markets (not compatible with F-Gas).

COM 2_(A) P_(B) ZB38_(C)

(A) Number of compressors
 (B) **P** = Positive range - **N** = Negative range
 (C) Compressor type

The COMPACT is available with HFCs. For more information, please consult our software.

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Positive range

COM ...			2P ZB38	2P ZB45	2P ZB50	3P ZB38	2P ZB66	3P ZB45	3P ZB50	2P ZB76	2P ZB95	3P ZB66
Power (1)	R449A	kW	16,7	19,6	23,0	25,1	28,7	29,4	34,5	34,0	41,4	43,0
Power consumption (1)		kW	7,7	8,8	10,5	11,6	13,2	13,1	15,7	15,1	19,7	19,7
Power (1)	R404A	kW	16,6	19,6	23,2	24,9	29,4	29,4	34,7	34,8	42,3	44,1
Power consumption (1)		kW	8,4	9,6	11,4	12,6	14,2	14,4	17,2	16,3	21,0	21,2
Compressor		Nb	2	2	2	3	2	3	3	2	2	3
Max. current drawn		A	22	22	25	33	31	34	38	36	46	47
Receiver volume		l.	45	45	45	45	45	45	60	60	60	60
Connection pack standard option	Delivery	Ø	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8
	Suction	Ø	1"5/8	1"5/8	1"5/8	1"5/8	1"5/8	1"5/8	2"1/8	2"1/8	2"1/8	2"1/8
	Liquid	Ø	7/8"	7/8"	7/8"	7/8"	7/8"	7/8"	1"1/8	7/8"	1"1/8	1"1/8
Rack weight		kg	287	292	328	340	334	346	403	338	348	408
Receiver size	L	mm	666	666	666	666	666	666	666	666	666	666
	D	mm	402	402	402	402	402	402	402	402	402	402
Receiver weight	H	mm	1137	1137	1137	1137	1137	1137	1338	1338	1338	1338
		kg	60	60	60	60	60	60	80	80	80	80

COM ...			4P ZB50	2P ZB114	3P ZB76	4P ZB66	3P ZB95	4P ZB76	3P ZB114	4P ZB95	4P ZB114
Power (1)	R449A	kW	46,0	49,0	50,9	57,4	62,1	67,9	73,4	82,8	97,9
Power consumption (1)		kW	21,0	23,4	22,7	26,3	29,6	30,3	35,1	39,5	46,9
Power (1)	R404A	kW	46,3	50,2	52,2	58,8	63,5	69,6	75,3	84,7	100,4
Power consumption (1)		kW	22,9	25,2	24,4	28,3	31,5	32,6	37,8	42,0	50,4
Compressor		Nb	4	2	3	4	3	4	3	4	4
Max. current drawn		A	50	58	53	62	70	71	87	93	115
Receiver volume		l.	60	60	60	60	60	60	120	120	120
Connection pack standard option	Delivery	Ø	1"1/8	1"3/8	1"3/8	1"3/8	1"3/8	1"3/8	1"3/8	1"5/8	1"5/8
	Suction	Ø	2"1/8	2"1/8	2"1/8	2"1/8	2"5/8	2"5/8	2"5/8	2"5/8	2"5/8
	Liquid	Ø	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"3/8	1"3/8	1"3/8
Rack weight		kg	474	361	425	491	438	506	448	526	533
Receiver size	L	mm	666	666	666	666	666	666	714	714	714
	D	mm	402	402	402	402	402	402	455	455	455
Receiver weight	H	mm	1338	1338	1338	1338	1338	1338	1834	1834	1834
		kg	80	80	80	80	80	80	120	120	120

(1) Evaporating temperature **-10 °C** / Ambient temperature **+45 °C** - Superheat: 10K - Subcool: 3K.

R404A is a refrigerant only available for non-EU markets (not compatible with F-Gas).

COM 2_(A) N_(B) ZF15_(C)

(A) Number of compressors

(B) **P** = Positive range - **N** = Negative range

(C) Compressor type

The COMPACT is available with HFCs.
For more information, please consult
our software.

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Negative range

COM ...			2N ZF15	3N ZF15	2N ZF25	2N ZF34	3N ZF25	2N ZF41	4N ZF25
Power (1)	R449A	kW	5,5	8,2	9,0	11,7	13,4	14,3	17,9
Power consumption (1)		kW	5,5	8,3	7,5	10,2	11,3	11,6	15,1
Power (1)	R404A	kW	6,1	9,2	9,2	12,1	13,8	15,4	18,4
Power consumption (1)		kW	6,0	9,1	7,6	10,3	11,3	12,7	15,1
Compressor		Nb	2	3	2	2	3	2	4
Max. current drawn		A	16	24	25	32	38	38	50
Receiver volume		l.	45	45	45	45	45	60	60
Connection pack standard option	Delivery	Ø	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8
	Suction	Ø	1"3/8	1"5/8	1"5/8	2"1/8	2"1/8	2"1/8	2"1/8
	Liquid	Ø	5/8"	5/8"	5/8"	5/8"	5/8"	7/8"	7/8"
Rack weight		kg	289	344	414	402	530	424	641
Receiver size	L	mm	666	666	666	666	666	666	666
	D	mm	402	402	402	402	402	402	402
Receiver weight	H	mm	1137	1137	1137	1137	1137	1338	1338
		kg	60	60	60	60	60	80	80

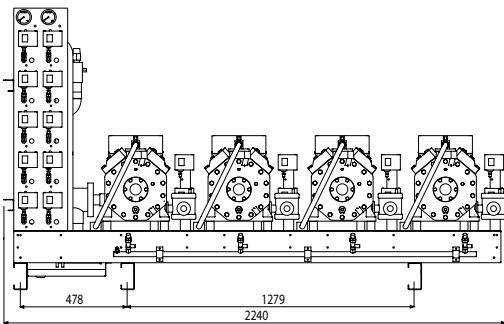
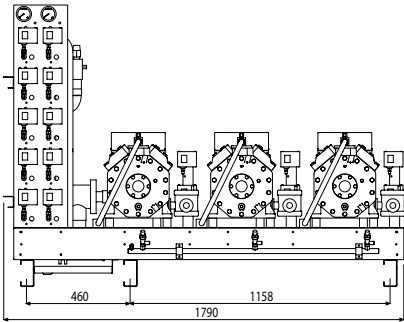
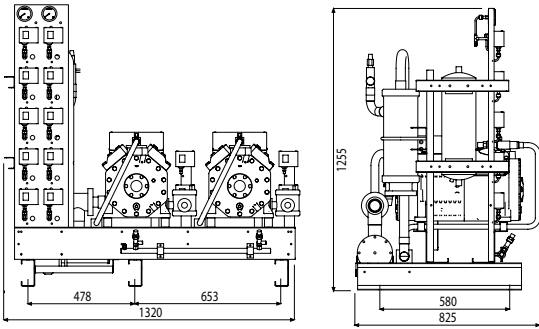
COM ...			2N ZF49	3N ZF34	3N ZF41	4N ZF34	3N ZF49	4N ZF41	4N ZF49
Power (1)	R449A	kW	17,6	17,6	21,5	23,5	26,5	28,6	35,3
Power consumption (1)		kW	15,3	15,4	17,4	20,5	23,0	23,2	30,6
Power (1)	R404A	kW	18,2	18,1	23,1	24,2	27,2	30,8	36,3
Power consumption (1)		kW	15,3	15,4	19,0	20,6	23,0	25,3	30,7
Compressor		Nb	2	3	3	4	3	4	4
Max. current drawn		A	49	48	57	64	73	76	98
Receiver volume		l.	60	60	60	60	60	60	120
Connection pack standard option	Delivery	Ø	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"1/8	1"3/8
	Suction	Ø	2"1/8	2"1/8	2"5/8	2"5/8	2"5/8	2"5/8	2"5/8
	Liquid	Ø	7/8"	7/8"	7/8"	7/8"	7/8"	1"1/8	1"1/8
Rack weight		kg	443	510	542	617	575	661	702
Receiver size	L	mm	666	666	666	666	666	666	714
	D	mm	402	402	402	402	402	402	455
Receiver weight	H	mm	1338	1338	1338	1338	1338	1338	1834
		kg	80	80	80	80	80	80	120

(1) Evaporating temperature **-35 °C** / Ambient temperature **+40 °C** - Superheat: 10K - Subcool: 3K.

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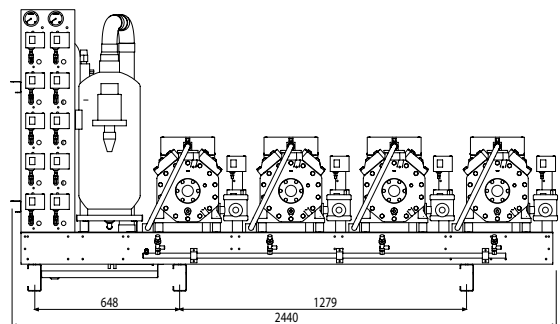
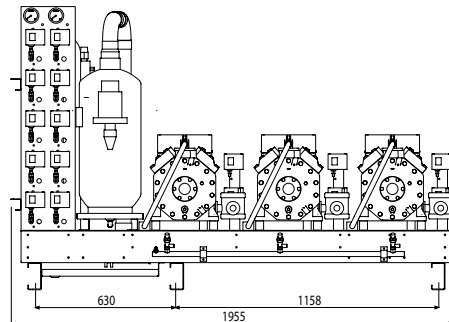
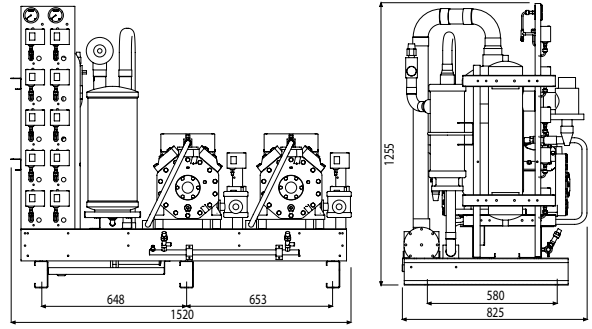
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without BAC option

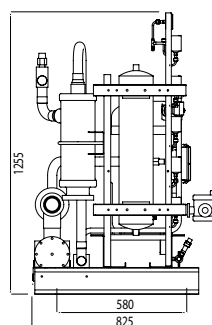
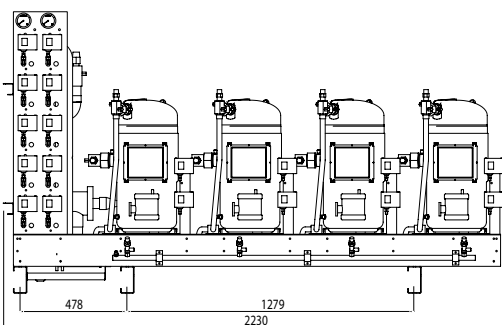
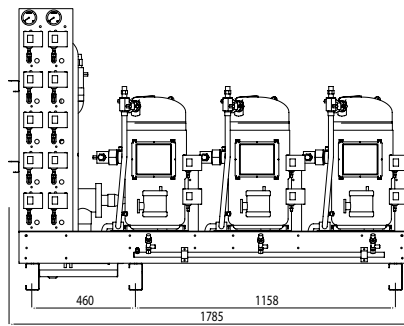
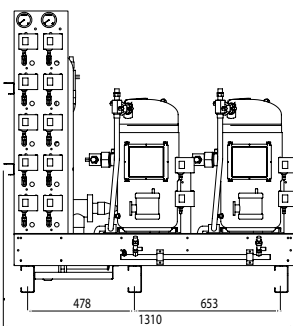


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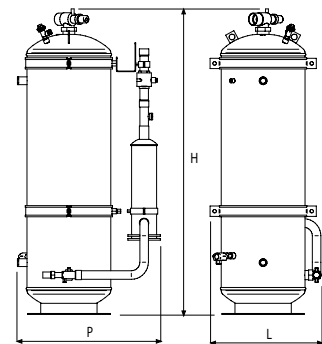
with BAC option



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Liquid station



		45 l.	60 l.	120 l.
L	mm	666	666	714
D	mm	402	402	455
H	mm	1137	1338	1834
Weight	kg	60	80	120

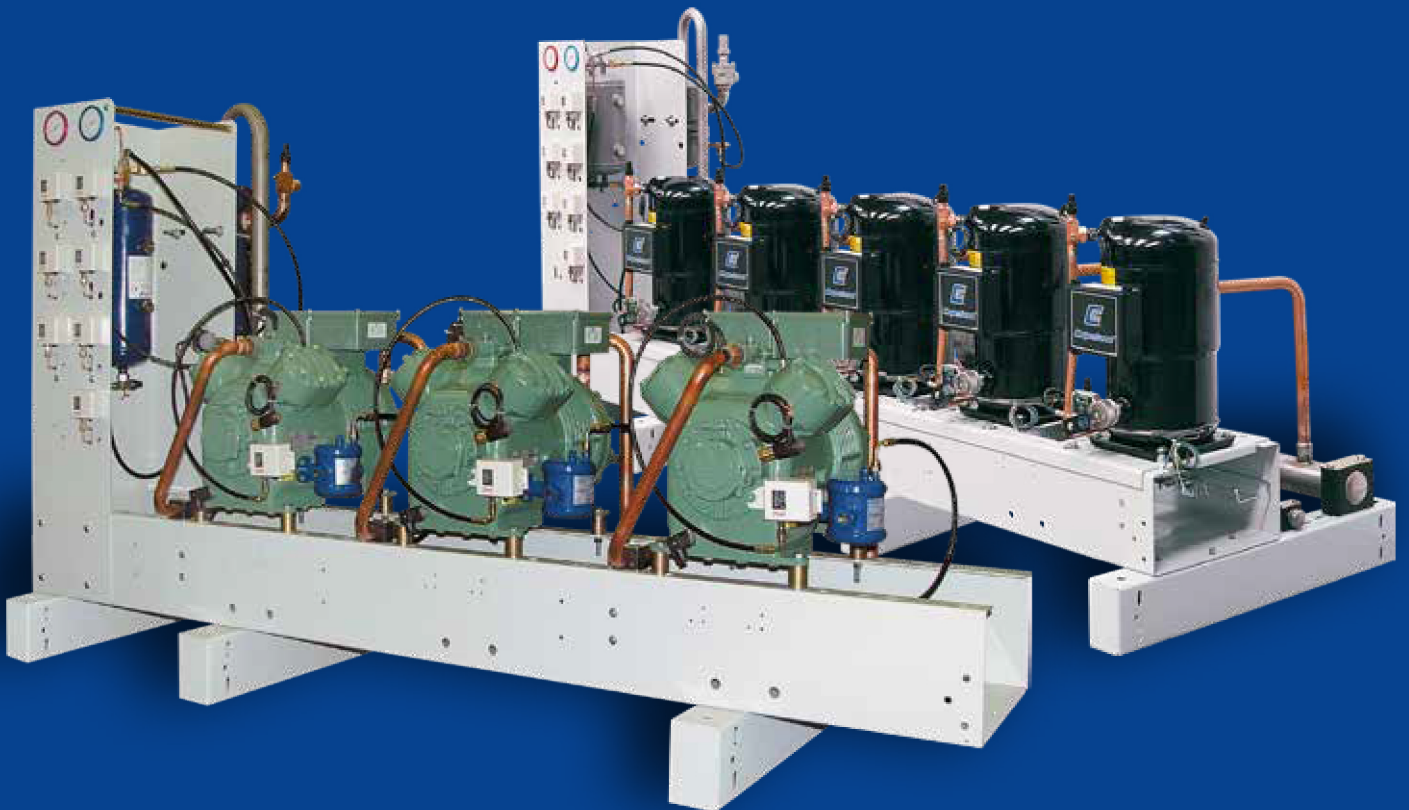


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MOPSH | MOSC

Semi-hermetic and
Scroll compressor rack

HFC



|||| MT 57 - 385 kW
|||| LT 23 - 120 kW



- # **Modular rack** to best meet the needs of your application, available with Scroll (Copeland), Semi-Hermetic (Copeland or Bitzer) compressors.
- # **Compact design** (width from 800 to 1,000 mm) that fits perfectly in restricted and hard-to-access areas.

CONTROL AND SAFETY DEVICES

- # 1 LP general safety pressure switch
- # 1 or 2 HP cartridge pressure switch(es) with automatic reset per compressor.
- # 2 pressure gages (LP + HP).
- # Differential oil pressure switch per compressor. **MOPSH**

OPTIONS

- ALF** Height-adjustable float coolant level alarm.
- ALR** Optoelectronic refrigerant level alarm.
- BAC** Liquid separator. **MOPSH**
- VFA** Suction valve and filter on each compressor. **MOPSH**
- SIL** Delivery muffler (1 per compressor). **MOPSH**

LIQUID STATION

- # Liquid station delivered separately.
- # Inlet/outlet shut-off valves.
- # Liquid outlet equipped with a removable filter dryer unit ≤ 150 l. and 2 parallel units with shut-off valves > 150 l.
- # Indicator and general shut-off valve on outlet.
- # Single or double safety valve (according to PED).

OPTIONS

- RLS** Oversized liquid receiver.
- SSD** Double safety valve with 3-way valve (for receivers < 120 litres).
- BD1** Single liquid drier bypass (1 filter unit) in operation.

MANIFOLDS

- # Suction and delivery all stainless steel 304 L.
- # One Schrader pressure port with shut-off valve per manifold (mano pressure switch connection, etc.).
- # Polypropylene collars on the suction and high temperature resistant polyamide on the delivery.
- # A general suction filter unit with removable cartridge up to 186 kW cooling capacity in positive and 47 kW in negative. One unit per compressor on top. **MOPSH**
- # A removable cartridge filter unit mounted on the suction manifold. **MOSC**

OPTION

- BDR** Condensate drain pan under suction manifolds.



COMPRESSORS

With Rotalock valves on suction and delivery + cylinder head fan in negative, crankcase heater and oil pump.

MOPSH

Equipped with Rotalock suction and delivery valves, crankcase heaters HP cartridge safety pressure switches and rigid suspension elements. **MOSC**

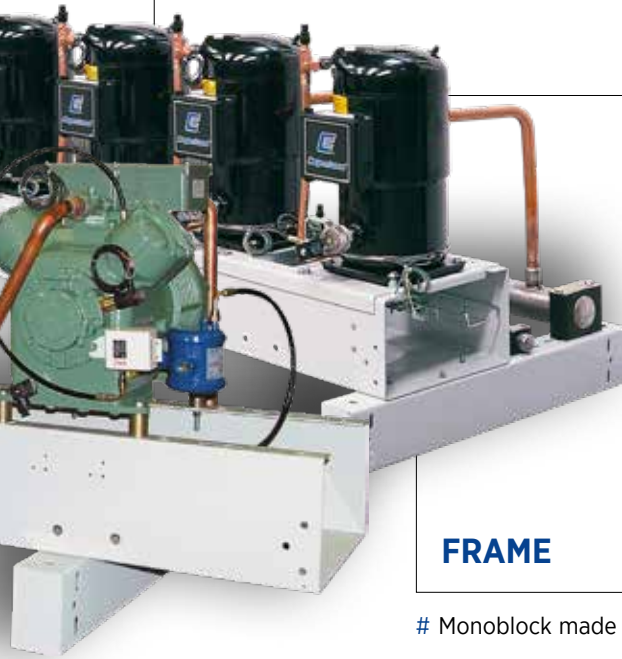
Negative models also include an injection system with different configurations depending on the compressors: shut-off valve, filter, solenoid valve and capillary. **MOSC**

OPTION

VAR

Power variation.

CONTACT US



OIL LINE

Removable oil separator and oil receiver with high/low indicators and shut-off valves.

Oil manifold with flexible connections at the ends.

LP oil return line with filter, indicator and shut-off valve per compressor.

Degassing valve.

Float level controllers. **MOPSH**

OPTIONS

TXL

Electronic oil level controllers. **MOPSH**

EVH

Oil return solenoid valve.

FRAME

Monoblock made from painted folded U-profile sheet steel, thickness 4 mm.

OPTIONS

CCB

Terminal block control wiring.

ARM

Electrical cabinet. **CONTACT US**

CAR

Casing (with integrated electrical cabinet). **CONTACT US**

PAV

Anti-vibration pads. **KIT TO INSTALL**

ANM

Rack handling rings (delivered not assembled with the rack). **KIT TO INSTALL**

PACK

OPTIONS

PR1

Connection pack

Customer connection valves (1 delivery, 1 suction, 1 liquid).

PR2

Customer connection valves (1 delivery, 2 suction, 2 liquid).

PR3

Customer connection valves (1 delivery, 3 suction, 3 liquid).

Safety pack

BPS

LP safety pressure switch per compressor.

HPG

HP general pressure switch (automatic).

Regulation pack

BP1

LP pressure switch (automatic) per compressor.

HPS

Additional HP pressure switches.

CDP

HP/LP pressure sensors signal 4-20 mA.

Do you have a specific request?

Contact us to design the unit
that meets your needs.

MOPSH_(A) 2_(B)P_(C) 4JE-15Y_(D)

- (A) MOPSH = Semi-hermetic compressor - MOSC = Scroll compressor
- (B) Number of compressors
- (C) P = Positive range - N = Negative range
- (D) Compressor type

The MOPSH is available with HFCs.
For more information,
please consult our software.

MOPSH | Semi-Hermetic

Positive range

MOPSH ...			2P 4JE-15Y	2P 4HE-18Y	2P 4GE-23Y	3P 4JE-15Y	3P 4HE-18Y	4P 4JE-15Y	3P 4GE-23Y	4P 4HE-18Y	3P 4FE-28Y
Power (1)	R449A	kW	62,3	73,1	84,9	93,4	109,6	124,5	127,3	146,2	151,2
Power consumption (1)		kW	25,0	30,0	35,6	37,4	45,0	49,9	53,4	59,9	62,4
Power (1)	R404A	kW	63,5	74,4	86,2	95,3	111,6	127,0	129,4	148,8	153,2
Power consumption (1)		kW	28,2	33,8	40,3	42,3	50,7	56,5	60,4	67,6	71,7
Compressor		Nb	2	2	2	3	3	4	3	4	3
Max. current drawn		A	58,6	69,8	83,3	87,9	104,7	117,2	125,0	139,6	149,5
Receiver volume		l.	60	60	120	150	150	150	150	150	250
Connection pack standard option	Delivery	Ø	1"3/8	1"5/8	1"5/8	1"5/8	1"5/8	2"1/8	2"1/8	2"1/8	2"1/8
	Suction	Ø	2"5/8	2"5/8	3"1/8	3"1/8	3"1/8	2x2"5/8	2x2"5/8	2x2"5/8	2x2"5/8
	Liquid	Ø	1"1/8	1"1/8	1"3/8	1"3/8	1"3/8	2x1"3/8	2x1"3/8	2x1"3/8	2x1"3/8
Rack dimensions	L	mm	1915	1915	1915	2515	2515	3115	2515	3115	2515
	D	mm	800	800	800	800	1000	1000	1000	1000	1000
	H	mm	1500	1500	1500	1500	1500	1450	1450	1450	1450
	A	mm	655	655	655	755	755	755	755	755	755
Weight		kg	610	620	630	850	860	1100	900	1140	960

MOPSH ...			4P 4GE-23Y	3P 6GE-34Y	4P 4FE-28Y	3P 6FE-44Y	5P 4FE-28Y	4P 6GE-34Y	4P 6FE-44Y	5P 6GE-34Y	5P 6FE-44Y
Power (1)	R449A	kW	169,8	189,3	201,6	226,8	252,0	252,5	302,4	315,6	378,1
Power consumption (1)		kW	71,2	78,8	83,2	94,2	103,9	105,1	125,6	131,3	157,1
Power (1)	R404A	kW	172,5	191,6	204,2	229,8	255,3	255,5	306,4	319,4	383,0
Power consumption (1)		kW	80,5	90,4	95,6	107,9	119,5	120,5	143,9	150,6	179,9
Compressor		Nb	4	3	4	3	5	4	4	5	5
Max. current drawn		A	166,7	186,9	199,3	222,9	249,1	249,2	297,2	311,5	371,6
Receiver volume		l.	250	250	250	250	350	250	350	350	350
Connection pack standard option	Delivery	Ø	2"1/8	2"5/8	2"5/8	2"5/8	3"1/8	3"1/8	3"1/8	3"1/8	3"1/8
	Suction	Ø	2x2"5/8	2x3"1/8	2x3"1/8	2x3"1/8	3x3"1/8	3x3"1/8	3x3"1/8	3x3"1/8	3x3"1/8
	Liquid	Ø	2x1"3/8	2x1"3/8	2x1"5/8	2x1"5/8	3x1"3/8	3x1"3/8	3x1"3/8	3x1"3/8	3x1"5/8
Rack dimensions	L	mm	3115	2515	3115	2515	3715	3115	3115	3715	3715
	D	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000
	H	mm	1450	1450	1580	1580	1580	1580	1580	1580	1780
	A	mm	755	755	755	755	755	755	755	755	755
Weight		kg	1160	1020	1240	1080	1540	1380	1430	1650	1720

(1) Evaporating temperature -10 °C / Ambient temperature +45 °C - Superheat: 10K - Subcool: 3K.

R404A is a refrigerant only available for non-EU markets (not compatible with F-Gas).

MOPSH^(A) 2^(B) N^(C) / 4HE-18Y^(D)

(A) **MOPSH** = Semi-hermetic compressor - **MOSC** = Scroll compressor
 (B) Number of compressors
 (C) **P** = Positive range - **N** = Negative range
 (D) Compressor type

The MOPSH is available with HFCs.
 For more information,
 please consult our software.

MOPSH | Semi-Hermetic

Negative range

MOPSH ...			2N 4HE-18Y	2N 4GE-23Y	2N 4FE-28Y	3N 4HE-18Y	3N 4GE-23Y	2N 6GE-34Y	4N 4HE-18Y	2N 6FE-44Y	3N 4FE-28Y
Power (1)	R449A	kW	20,0	24,2	29,0	30,1	36,4	37,4	40,1	43,4	43,4
Power consumption (1)		kW	14,4	17,4	20,7	21,6	26,1	25,1	28,8	31,7	31,0
Power (1)	R404A	kW	22,2	26,6	31,8	33,3	39,8	40,6	44,4	47,7	47,7
Power consumption (1)		kW	17,4	20,7	24,8	26,1	31,0	31,8	34,8	38,5	37,2
Compressor		Nb	2	2	2	3	3	2	4	2	3
Max. current drawn		A	49,1	57,7	72,8	73,6	86,5	90,4	98,2	112,4	109,2
Receiver volume		l	60	60	120	120	150	120	150	150	150
Connection pack standard option	Delivery	Ø	1"3/8	1"3/8	1"3/8	1"3/8	1"3/8	1"3/8	1"3/8	1"3/8	1"5/8
	Suction	Ø	2"5/8	2"5/8	2"5/8	2"5/8	2x2"5/8	2x2"1/8	2x2"5/8	2x2"5/8	2x2"5/8
	Liquid	Ø	7/8"	1"1/8	1"3/8	1"3/8	2x7/8"	2x7/8"	2x7/8"	2x7/8"	2x7/8"
Rack dimensions	L	mm	1915	1915	1915	2515	2515	1915	3115	1915	2515
	D	mm	800	800	800	800	800	800	800	800	1000
	H	mm	1500	1500	1500	1500	1450	1450	1450	1450	1450
	A	mm	655	655	655	655	755	755	755	755	755
Weight		kg	600	610	640	820	840	690	1060	720	930

MOPSH ...			3N 6GE-34Y	4N 4FE-28Y	3N 6FE-44Y	5N 4FE-28Y	4N 6GE-34Y	4N 6FE-44Y	5N 6GE-34Y	5N 6FE-44Y
Power (1)	R449A	kW	56,0	57,9	65,2	72,4	74,7	86,9	93,4	108,6
Power consumption (1)		kW	37,7	41,4	47,6	51,7	50,3	63,4	62,9	79,3
Power (1)	R404A	kW	60,9	63,6	71,5	79,5	81,2	95,3	101,5	119,2
Power consumption (1)		kW	47,7	49,6	57,8	62,0	63,7	77,0	79,6	96,3
Compressor		Nb	3	4	3	5	4	4	5	5
Max. current drawn		A	135,6	145,6	168,6	182,0	180,8	224,8	226,0	281,0
Receiver volume		l	150	250	250	250	250	250	350	350
Connection pack standard option	Delivery	Ø	1"5/8	1"5/8	1"5/8	1"5/8	1"5/8	2"1/8	2"1/8	2"1/8
	Suction	Ø	2x2"5/8	2x3"1/8	2x3"1/8	3x2"5/8	2x3"1/8	3x2"5/8	3x3"1/8	3x3"1/8
	Liquid	Ø	2x1"1/8	2x1"1/8	2x1"1/8	3x1"1/8	2x1"3/8	3x1"1/8	3x1"1/8	3x1"1/8
Rack dimensions	L	mm	2515	3115	2515	3715	3115	3115	3715	3715
	D	mm	1000	1000	1000	1000	1000	1000	1000	1000
	H	mm	1580	1580	1580	1580	1580	1580	1580	1780
	A	mm	755	755	755	755	755	755	755	755
Weight		kg	1000	1200	1050	1470	1290	1370	1610	1680

(1) Evaporating temperature **-35 °C** / Ambient temperature **+40 °C** - Superheat: 10K - Subcool: 3K.

R404A is a refrigerant only available for non-EU markets (not compatible with F-Gas).

MOSC^(A) 5^(B) P^(C) ZB50^(D)

- (A) **MOPSH** = Semi-hermetic compressor - **MOSC** = Scroll compressor
- (B) Number of compressors
- (C) **P** = Positive range - **N** = Negative range
- (D) Compressor type

The MOSC is available with HFCs.
For more information,
please consult our software.

MOSC | Scroll

Positive range

MOSC ...			5P ZB50	5P ZB76	6P ZB76	5P ZB95	5P ZB114	6P ZB95	6P ZB114
Power (1)	R449A	kW	57,5	84,9	101,9	103,5	122,4	124,2	146,9
Power consumption (1)		kW	26,2	37,9	45,4	49,4	58,6	59,2	70,3
Power (1)	R404A	kW	57,9	87,0	104,4	105,8	125,5	127,0	150,6
Power consumption (1)		kW	28,6	40,7	48,9	52,5	63,0	63,0	75,6
Compressor		Nb	5	5	6	5	5	6	6
Max. current drawn		A	73	102	122	141	167	169	200
Receiver volume		l.	60	120	120	120	150	150	150
Connection pack standard option	Delivery	Ø	1"5/8	1"5/8	2"1/8	2"1/8	2"1/8	2"1/8	2"5/8
	Suction	Ø	2"5/8	3"1/8	3"1/8	3"1/8	3"1/8	4"1/8	4"1/8
	Liquid	Ø	1"1/8	1"3/8	1"3/8	1"3/8	1"5/8	1"5/8	1"5/8
Rack weight		kg	3115	3115	3715	3115	3115	3715	3715
Receiver size	L	mm	800	800	800	1000	1000	1000	1000
	D	mm	1500	1500	1500	1500	1500	1500	1500
	H	mm	655	655	755	755	755	755	755
Receiver weight		kg	820	820	980	890	930	1040	1100

(1) Evaporating temperature **-10 °C** / Ambient temperature **+45 °C** - Superheat: 10K - Subcool: 3K.

MOSC | Scroll

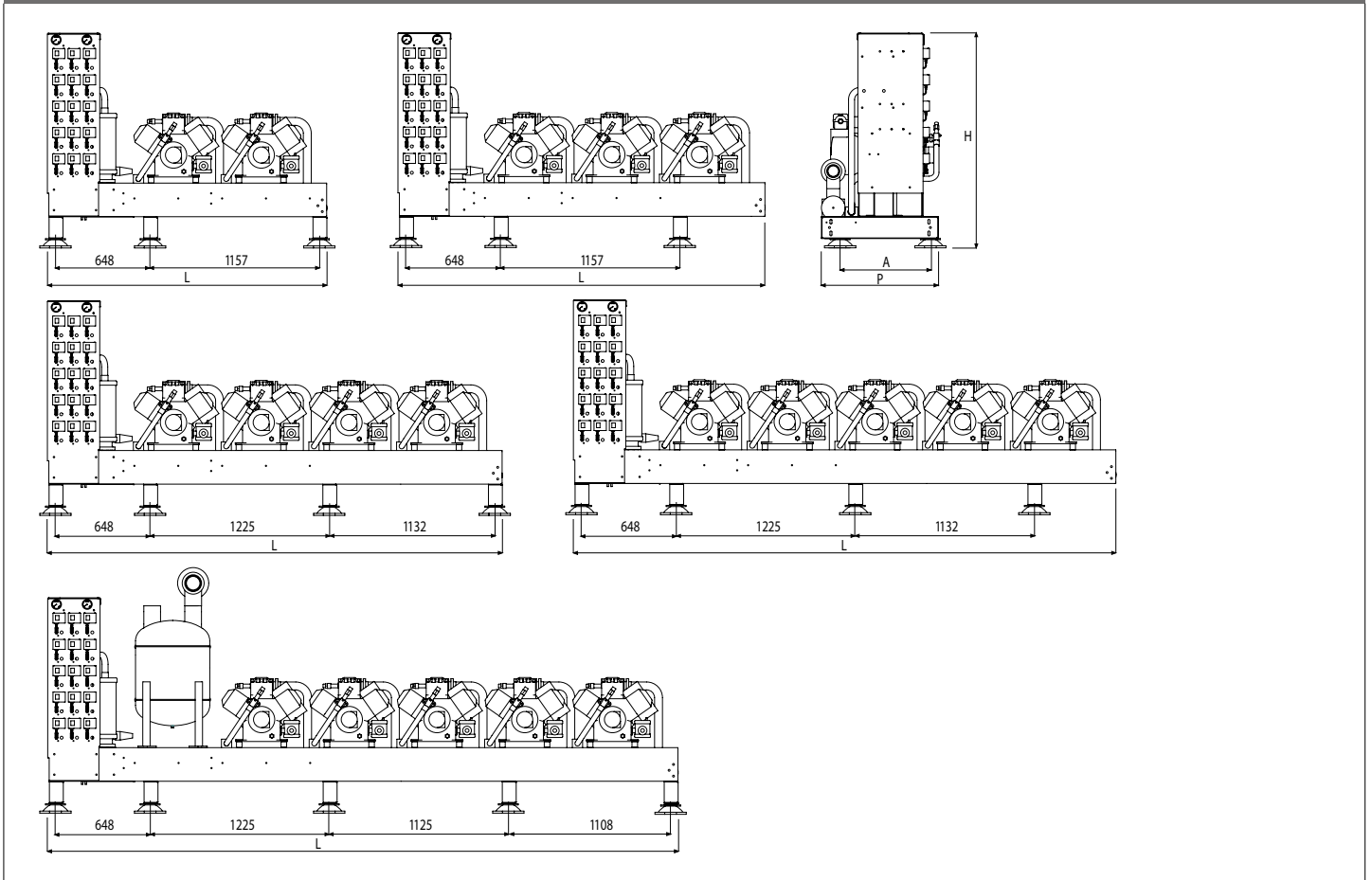
Negative range

MOSC ...			5N ZF25	5N ZF34	6N ZF34	5N ZF41	6N ZF41	5N ZF49	6N ZF49
Power (1)	R449A	kW	22,4	29,4	35,2	35,8	42,9	44,1	52,9
Power consumption (1)		kW	18,9	25,6	30,7	29,1	34,9	38,3	45,9
Power (1)	R404A	kW	23,1	30,2	36,2	37,8	45,4	45,4	54,5
Power consumption (1)		kW	18,9	25,7	30,8	31,9	38,2	38,4	46,0
Compressor		Nb	5	5	6	5	6	5	6
Max. current drawn		A	81	112	134	126	151	153	184
Receiver volume		l.	60	60	120	150	150	150	150
Connection pack standard option	Delivery	Ø	1"3/8	1"3/8	1"3/8	1"3/8	1"5/8	1"3/8	1"5/8
	Suction	Ø	2"5/8	2"5/8	3"1/8	3"1/8	3"1/8	3"1/8	4"1/8
	Liquid	Ø	1"1/8	1"1/8	1"3/8	1"3/8	1"3/8	1"3/8	1"5/8
Rack weight		kg	3115	3115	3715	3115	3715	3115	3715
Receiver size	L	mm	800	800	800	800	800	800	1000
	D	mm	1500	1500	1500	1500	1500	1500	1500
	H	mm	655	655	755	755	755	755	755
Receiver weight		kg	820	820	980	890	1040	930	1100

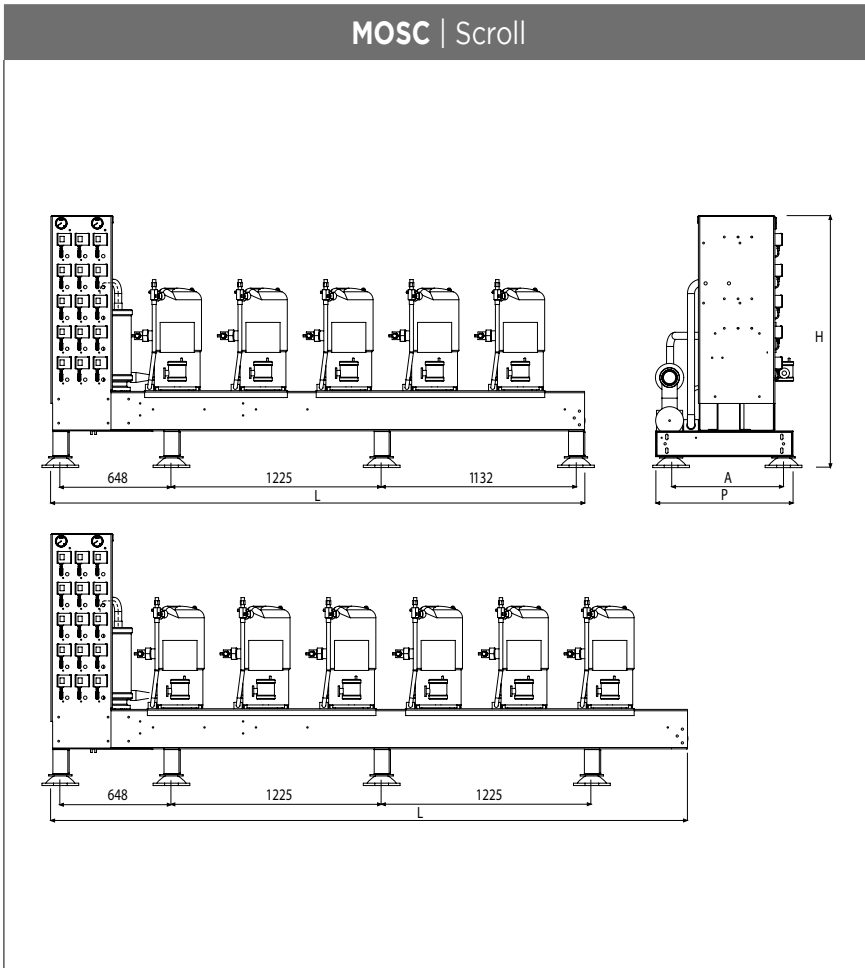
(1) Evaporating temperature **-35 °C** / Ambient temperature **+40 °C** - Superheat: 10K - Subcool: 3K.

R404A is a refrigerant only available for non-EU markets (not compatible with F-Gas).

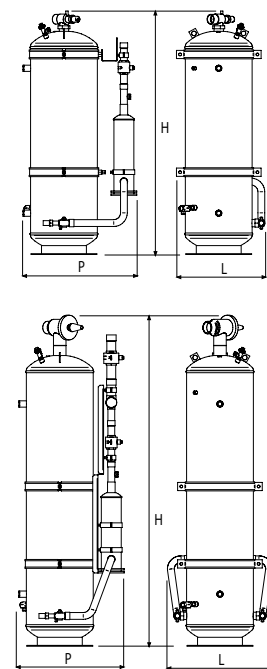
MOPSH | Semi-Hermetic



MOSC | Scroll



Liquid station



		60 l.	120 l.	150 l.	250 l.	350 l.
L'	mm	666	714	790	739	993
P'	mm	402	455	538	638	856
H'	mm	1366	1834	1605	2010	1942
Poids	kg	90	130	150	250	290

FRIGA-BOHN®

MOVSH

Semi-hermetic screw compressor rack

HFC



70 - 700 kW



- # **Modular:** to best meet the needs of your application, the rack is available in models with between 1 and 6 screw compressors.
- # **Compact design** to save space.

CONTROL DEVICES

- # HP and LP pressure gage.
- # 1 or 2 HP cartridge pressure switch(s) with automatic reset per compressor.
- # HP pressure switch and LP safety pressure switch with automatic reset.
- # Oil temperature safety and temperature control thermostat.
- # Thermometers for oil temperature reading.
- # Delivery temperature, flow rate and oil level protection relays.

COMPRESSORS

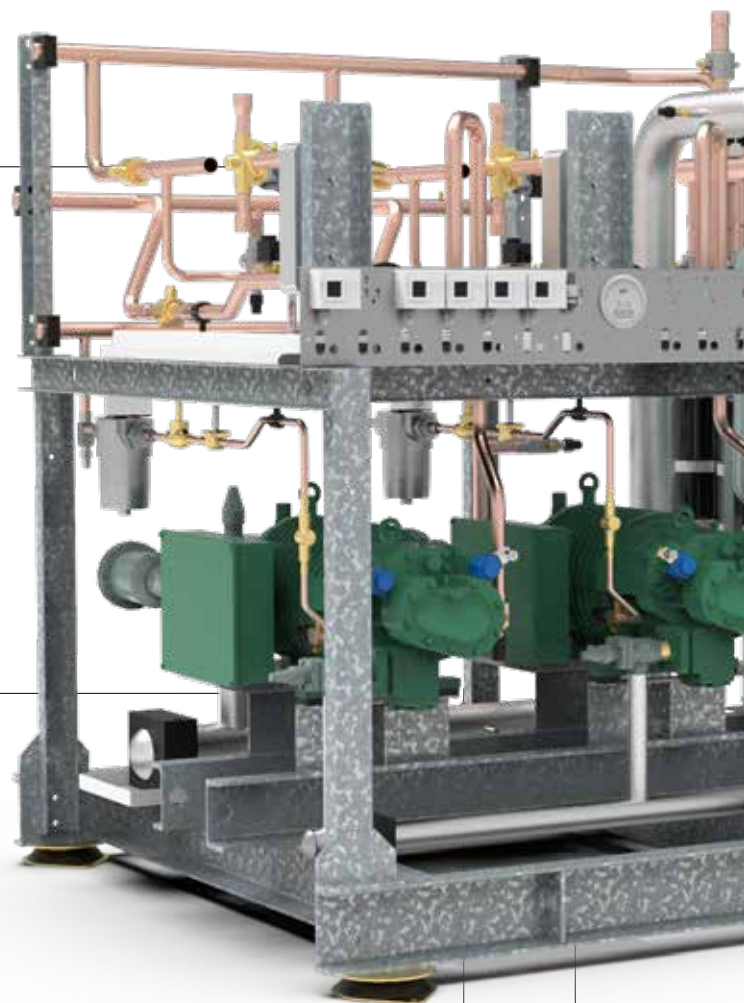
- # Screw compressors with part-winding start integral protection motor.
- # Suction and delivery valves, check valve and capacity reduction.

FRAME

- # Monoblock made from painted U-profile hot galvanized folded sheet steel 4 mm thick.

MANIFOLDS

- # Stainless steel 304L suction manifolds; low speed.
- # Stainless steel or copper delivery manifolds depending on diameter.
- # One suction filter per compressor with stainless steel sieve.
- # Suction valve(s) optional.



LIQUID RECEIVER

- # Vertical separate from the rack.
- # Inlet and outlet valves.
- # Liquid indicator.
- # Safety valve (double from 100 litres).

OIL CIRCUIT

- # Three-way mixing valve for uniform thermostatic oil control.
- # Minimum-maximum oil temperature safety thermostats.
- # Oil indicator per compressor.
- # Oil flow controller.
- # Solenoid valve.
- # Manual shut-off valve.
- # High efficiency filter.

OIL SEPARATOR

- # Heaters.
- # Regulation thermostat.
- # Oil minimum level detector.
- # Indicator, safety valve, stop valve, check valve and fill valve.

LIQUID LINE

- # Removable filter dryer.
- # Service valve.
- # Liquid indicator.

OPTIONS

- # Oil cooling by air or water.
- # Economizer system for high temperature racks.
- # Oversized receiver.
- # Water condensation fitted.
- # Heat recovery system.
- # Hot gas defrost and all its variants.
- # Electrical cabinet.
- # Liquid valve(s).
- # Frame and compressor painted.

Do you have a specific request?

Contact us to design the unit
that meets your needs.

FRIGA-BOHN®

Compressor racks

Other configurations

HFC



DUPLEX "BOOSTER" RACK

Description

- # Semi-hermetic or Scroll compressors.
- # LP stage in the upper part and MP stage in the lower part on superimposed or separate frame.
- # Injection valves, solenoid valves and desuperheat liquid separator.
- # Liquid station delivered separately with liquid subcooler exchanger (on request).
- # Heat recovery exchanger (on request).
- # Complete electrical cabinet (not assembled).



Advantages

- # Reduced footprint for space saving in the machine room.
- # 1 delivery and a single condenser for the LP and MP stages.
- # Improved coefficient of performance (COP).
- # Reduced compressor size.
- # For cramped and difficult to access locations, possibility of providing a removable frame (contact us).

DUPLEX INDEPENDENT HIGH TEMPERATURE AND LOW TEMPERATURE RACK

Description

- # Semi-hermetic or Scroll compressors.
- # Superimposed frame with handling rings.
- # High temperature and low temperature racks with common delivery (on request).
- # Liquid station delivered separately with liquid subcooler exchanger (on request).
- # Heat recovery exchanger (on request).
- # Complete electrical cabinet (not assembled).



Advantages

- # Reduced footprint for space saving in the machine room.
- # Choosing a common delivery saves space on the roof with the installation of a single condenser.
- # For cramped and difficult to access locations, possibility of providing a removable frame (contact us).

ENCASED RACK

Description

- # Semi-hermetic, Scroll or semi-hermetic screw compressors.
- # Casing made from pre-painted sheet metal with panels that can be removed by turn latches, 6-sided noise insulation with cooling system connected to the rack available on request.
- # Frame with handling rings.
- # Integrated electrical cabinet.



Advantages

- # Designed for outdoor installation on the ground or on a roof.
- # Lifting rings attached to the base of the frame make handling easier.
- # These encased racks and their noise insulation casing are easy to integrate into an urban environment (on request).
- # Alternative to cramped machine rooms.

MONOSH - COMPRESSOR UNIT ON LIQUID RECEIVER

Description

- # Semi-hermetic compressor with crankcase heaters and delivery and suction valves.
- # Horizontal liquid receiver 21 or 40 litres depending on the model with valves and safety valve.

Options

- # Outgoing line (filter dryer, indicator, and VEM and shut-off valve).
- # Suction line (liquid separator and vibration eliminators).
- # Delivery line (vibration eliminator, muffler, oil separator).
- # Oil line (hand valve, indicator and solenoid valve).
- # Electrical cabinet (not assembled).
- # Pre-painted sheet metal casing ideal for



Advantages

- # The MONOSH liquid receiver-mounted units have a small footprint.
- # A wide range of options to obtain a unit adapted to each need.
- # The equipment is delivered as standard with HP/LP and oil differential pressure switches, receiver shut-off valves, safety valve, etc.
- # With or without casing, the components are easy to access. The compressor is placed longitudinally on the receiver, making it easy to remove and access the oil pump.

FRIGA-BOHN®

PEG

Chilled water production

HFC



Chilled water production range for **installation in machine rooms.**



PEG 300 ... 760

||||| 290 - 780 kW

Glycol water -4 °C/-8 °C - Condensing temperature: +45°C

||||| 280 - 690 kW

Glycol water -5 °C/-9 °C - Condensing temperature: +45°C

Description

- # Hot dip galvanized UPN monoblock.
- # 1, 2 or 3 separate refrigerating circuits.
- # Power regulation up to three stages: 100%/75%/50%.
- # Delivery valve per circuit.
- # Vertical liquid receiver per circuit:
liquid stations delivered on separate frame.
- # Multitube heat exchanger (copper bundle tube and steel grille).
- # Electronic expansion valves with controller, probes, sensors and solenoid valve.
- # Screw compressors (HSK or CSH).
- # Screw compressors with plate heat exchanger-economizer
- # Stainless steel condensate tank under compressor
- # Full insulation, heat exchanger and manifold on suction side
- # Electronic expansion valve with complete regulation
- # Pre-wiring box
- # Multitube or plate desuperheater per circuit

Advantages

- # The design of the rack is optimized to facilitate access to the components: compressors, plate heat exchanger, desuperheater, bypass valves, etc.
- # The bypass valves are mounted to isolate the circuit and simplify operations during maintenance work on the receiver, the heat exchanger, etc.
- # A condensate drain pan is available under each compressor as standard to keep the machine room clean.



PEG 170 ... 320

||||| 170 - 320 kW

Glycol water -4 °C/-8 °C - Condensing temperature: +45°C

||||| 180 - 330 kW

Glycol water -5 °C/-9 °C - Condensing temperature: +45°C

Description

- # Hot dip galvanized UPN monoblock.
- # 1 or 2 separate refrigerating circuits.
- # Delivery valve per circuit.
- # Vertical liquid receiver per circuit:
liquid stations delivered on separate frame or fitted.
- # Multitube heat exchanger (copper bundle tube and steel grille).
- # 2 electronic expansion valves with controller, probes, sensors and solenoid valve.
- # Semi-hermetic reciprocating: 3, 4 or 5 compressors.
- # Screw compressors with plate heat exchanger-economizer
- # Full insulation, heat exchanger and manifold on suction side (optional)
- # Electronic expansion valve with complete regulation
- # Liquid receiver fitted
- # Power + control pre-wiring (on request)
- # Complete hydraulic equipment

Advantages

- # The design of the rack is optimized to facilitate access to the components: compressors, plate heat exchanger, desuperheater, bypass valves, etc.
- # The bypass valves are mounted to isolate the circuit and simplify operations during maintenance work on the receiver, the heat exchanger, etc.
- # A condensate drain pan is available under each compressor as standard to keep the machine room clean.

Encased chiller ranges for **outdoor installation**.



PEG ENCASED OUTDOOR

Water system

Glycol water (MEG/MPG) -4 °C/-8 °C and -5 °C/-9 °C

Description

- # Casing made from pre-painted sheet metal with panels that can be removed by turn latches, 6-sided noise insulation with cooling system connected to the rack available on request
- # Galvanized UPN frame with handling rings
- # Multitube heat exchanger with 2 refrigeration circuits
- # Full insulation, heat exchanger and manifold on suction side
- # Liquid subcooler heat exchanger for screw compressor
- # Electronic expansion valve with complete regulation
- # Electrical cabinet fitted
- # Complete hydraulic circuit and equipment (optional)

Advantages

- # Designed for outdoor installation on the ground or on a roof
- # Easy installation, the lifting rings attached to the base of the frame make handling easier
- # These encased units and their noise insulation casing are easy to integrate into an urban environment (on request)
- # Alternative to cramped machine rooms.