

COMPRESSOR RACK SEMI-HERMETIC PISTONS AND SCROLL

Hard Discount - Supermarkets - Hypermarkets
Food processing - Canteen kitchens

HFC

6 > 110 kW

COMPACT

- A range specially designed to meet the needs and expectations of today's market, in particular with regard to reliability and compactness.
- Racks include 2 to 4 Scroll or Octagon Semi-Hermetic compressors.
- Folded, galvanized steel monoblock frame eliminating vibrations.
- Liquid station delivered separately.
- Copper collector and oil control line.
- Supplied non-wired, wired or with a complete switching enclosure.





DESCRIPTION

Frame

- Monoblock frame designed to avoid vibration-related problems.

Compressors

- Compressor with scroll (Copeland) or semi-hermetic piston (Octagon) technology.
- Equipped with a shut-off valve on the suction and delivery sides, casing heater and rigid suspension elements.
- Head fan for semi-hermetic piston models used in low-temperature applications.

Collectors

- Copper suction and delivery pipes.
- Polypropylene fastening straps on the suction side and high-temperature resistant polyamide straps on the delivery side.
- A general filter unit on the suction side.

Oil line

- Oil separator with receiver high and low level indicator.
- Oil collector with flexible end connections.
- LP oil return line with filter and indicator.
- Oil level regulator with float system with shut-off valve per compressor for SH and electrical for Scroll.
- Degassing valve.

Liquid station

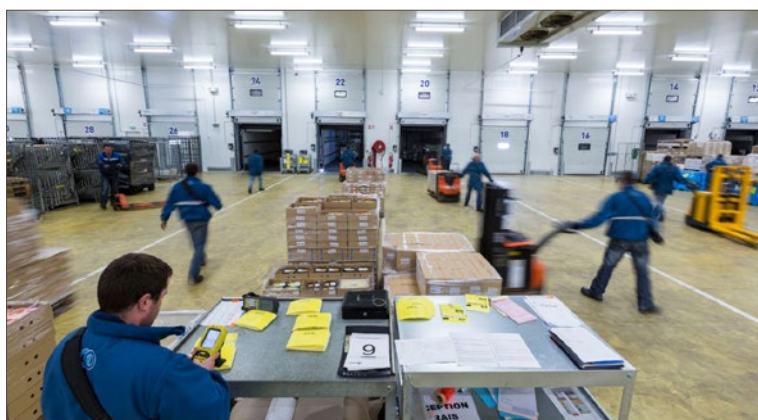
- Liquid station delivered separately.
- 2 inlet/outlet shut-off valves.
- Liquid line equipped with a removable filter dryer unit and indicator.
- Single safety valve or double (according to PED).

Connection pack

- 1 connection valve on the suction, delivery and liquid line.

Monitoring devices

- 1 general safety LP pressure switch.
- 1 or 2 automatic reset HP cartridge pressure switch(s) per compressor (according to EN 378-2: 2009).
- 2 manometers (LP+HP)
- 1 oil differential pressure switch per compressor for semi-hermetic piston compressor model 4TC to 4NC.



DESIGNATION

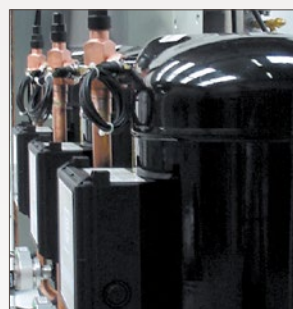
COM 2⁽¹⁾P⁽²⁾ / 4EES-4Y⁽³⁾

(1) Number of compressor

(2) **P** = Chill range - **N** = Low temperature range

(3) Type of compressor

CERTIFICATIONS



Kit Factory

OPTIONS

Safety pack

- LP safety pressure switch per compressor.
- General HP safety pressure switch.

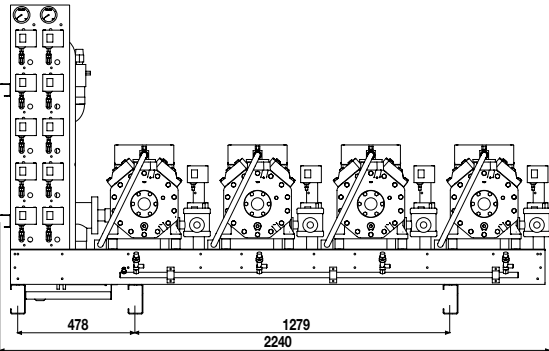
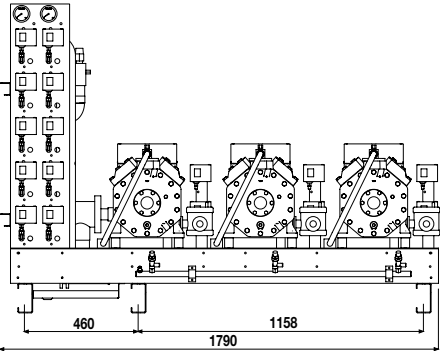
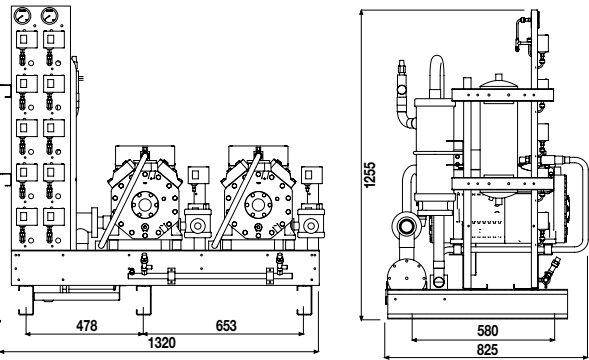
Regulator pack

- LP pressure switch (automatic reset).
- Additional HP pressure switches.
- LP/HP pressure sensors, 4-20 mA signal.

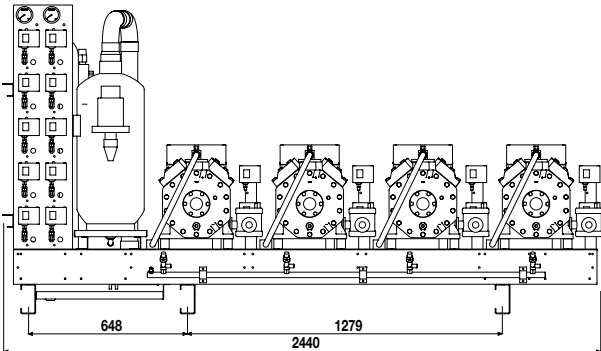
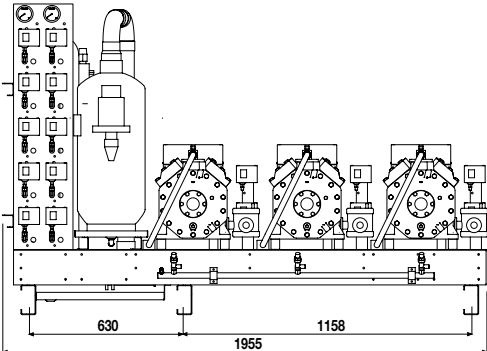
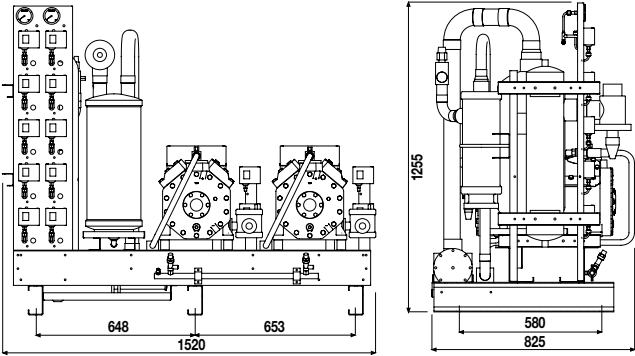
Miscellaneous

- BAC** Suction accumulator (only for semi-hermetic compressor).
- TXL** Traxoil oil regulator.
- RLS** Oversized liquid receiver.
- ALF** Height-adjustable refrigerant level alarm with float.
- ALR** Opto-electronic refrigerant level alarm.
- SSD** Double safety valve with 3-way valve (for receivers < 120 litres).
- BDR** Condensate drip tray under suction collectors.
- PAV** Anti-vibration pads.
- ARM** Switching enclosure (contact us).

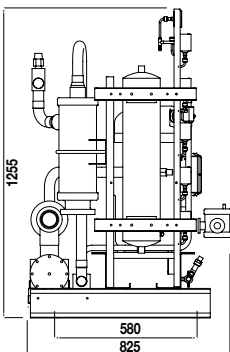
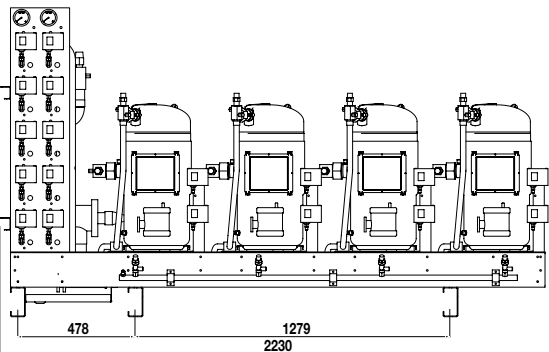
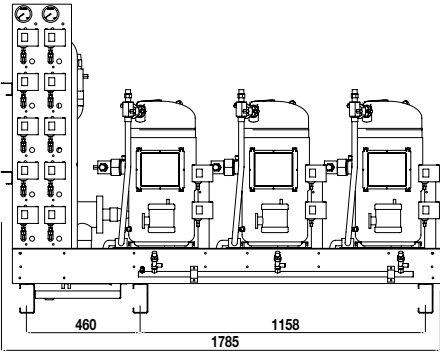
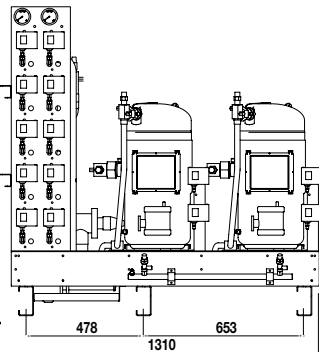
COMPACT - Octagon (without BAC option)



COMPACT - Octagon (with BAC option)

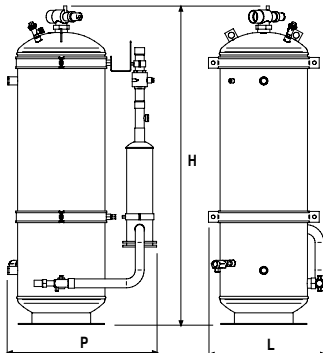


COMPACT - Scroll



Liquid station

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



COMPACT - Octagon

Chill range

-10°C/+45°C *		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
Capacity R404A*	kW		22,2	26,5	32,0	33,3	39,7	40,2	44,4	45,7	48,1
Input power*	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. input current	A		20	25	32	31	38	39	41	43	48
Receiver volume	l.		45	45	60	60	60	60	60	60	60
Standard connection package	Discharge	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 dimensions	L	mm	666	666	666	666	666	666	666	666	666
	P	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

-10°C/+45°C *		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
Capacity R404A*	kW		53,0	54,8	60,4	64,1	68,6	80,5	82,1	91,4	109,5
Input power*	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. input current	A		50	52	59	64	65	78	77	86	103
Receiver volume	l.		60	60	60	60	120	120	120	120	120
Standard connection package	Discharge	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 dimensions	L	mm	666	666	666	666	714	714	714	714	714
	P	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

* Evaporation temperature / condensation temperature - Superheating 10K, subcooling 3K.

Refer to the software package for a more accurate rack selection.

	BPS	HPG	BP1	HPS	CDP	BAC	TXL	RLS 60 l.	RLS 120 l.	RLS 150 l.	ALF	ALR	SSD	BDR	PAV	ARM
COM 2P/4EES-4Y	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0
COM 2P/4DES-5Y	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0
COM 2P/4CES-6Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 3P/4EES-4Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 3P/4DES-5Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 2P/4TES-9Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 4P/4EES-4Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 2P/4PES-12Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 3P/4CES-6Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 4P/4DES-5Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 2P/4NES-14Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 3P/4TES-9Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 4P/4CES-6Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 3P/4PES-12Y	0	0	0	0	0	0	0	-	-	0	0	0	-	0	0	0
COM 4P/4TES-9Y	0	0	0	0	0	0	0	-	-	0	0	0	-	0	0	0
COM 3P/4NES-14Y	0	0	0	0	0	0	0	-	-	0	0	0	-	0	0	0
COM 4P/4PES-12Y	0	0	0	0	0	0	0	-	-	0	0	0	-	0	0	0
COM 4P/4NES-14Y	0	0	0	0	0	0	0	-	-	0	0	0	-	0	0	0

COMPACT - Octagon

Low temperature range

-35°C/+40°C *		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
Capacity R404A*		kW	6,6	7,9	9,3	9,9	11,2	11,8	12,0	13,2	13,9
Input power*		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. input current		A	15	19	25	23	27	29	29	30	38
Receiver volume		l.	45	45	45	45	45	45	45	45	45
Standard connection package	Discharge	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
	P	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

-35°C/+40°C *		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
Capacity R404A*		kW	15,2	15,8	16,7	18,0	18,6	22,3	22,8	24,0	30,4
Input power*		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. input current		A	35	39	40	44	51	54	52	58	70
Receiver volume		l.	60	60	60	60	60	60	60	60	60
Standard connection package	Discharge	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 dimensions	L	mm	666	666	666	666	666	666	666	666	666
	P	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

* Evaporation temperature / condensation temperature - Superheating 10K, subcooling 3K.

Refer to the software package for a more accurate rack selection.

	BPS	HPG	BP1	HPS	CDP	BAC	TXL	RLS 60 l.	RLS 120 l.	RLS 150 l.	ALF	ALR	SSD	BDR	PAV	ARM
COM 2N/4EES-4Y	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0
COM 2N/4DES-5Y	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0
COM 2N/4CES-6Y	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0
COM 3N/4EES-4Y	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0
COM 2N/4TES-9Y	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0
COM 3N/4DES-5Y	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0
COM 2N/4PES-12Y	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0
COM 4N/4EES-4Y	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0
COM 3N/4CES-6Y	0	0	0	0	0	0	0	0	-	-	0	0	0	0	0	0
COM 2N/4NES-14Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 4N/4DES-5Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 3N/4TES-9Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 3N/4PES-12Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 4N/4CES-6Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 4N/4TES-9Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 3N/4NES-14Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 4N/4PES-12Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0
COM 4N/4NES-14Y	0	0	0	0	0	0	0	-	0	-	0	0	0	0	0	0

COMPACT - Scroll

Chill range

-10°C/+45°C *		COM ...	2P ZB38	2P ZB45	2P ZB50	3P ZB38	2P ZB66	3P ZB45	3P ZB50	2P ZB76	2P ZB95	3P ZB66
Capacity R404A*	kW		16,6	19,6	23,2	24,9	29,4	29,4	34,7	34,8	42,3	44,1
Input power*	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. input current	A		22	22	25	33	31	34	38	36	46	47
Receiver volume	l.		45	45	45	45	45	45	60	60	60	60
Standard connection package	Discharge	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 dimensions	L	mm	666	666	666	666	666	666	666	666	666	666
	P	mm	402	402	402	402	402	402	402	402	402	402
	H	mm	1137	1137	1137	1137	1137	1137	1338	1338	1338	1338
Receiver weight	kg		60	60	60	60	60	60	80	80	80	80

-10°C/+45°C *		COM ...	4P ZB50	2P ZB114	3P ZB76	4P ZB66	3P ZB95	4P ZB76	3P ZB114	4P ZB95	4P ZB114
Capacity R404A*	kW		46,3	50,2	52,2	58,8	63,5	69,6	75,3	84,7	100,4
Input power*	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. input current	A		50	58	53	62	70	71	87	93	115
Receiver volume	l.		60	60	60	60	60	60	120	120	120
Standard connection package	Discharge	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 dimensions	L	mm	666	666	666	666	666	666	714	714	714
	P	mm	402	402	402	402	402	402	455	455	455
	H	mm	1338	1338	1338	1338	1338	1338	1834	1834	1834
Receiver weight	kg		80	80	80	80	80	80	120	120	120

* Evaporation temperature / condensation temperature - Superheating 10K, subcooling 3K.

Refer to the software package for a more accurate rack selection.

	BPS	HPG	BP1	HPS	CDP	BAC	TXL	RLS 60 l.	RLS 120 l.	RLS 150 l.	ALF	ALR	SSD	BDR	PAV	ARM
COM 2P/ZB38	0	0	0	0	0	-	0	0	-	-	0	0	0	0	0	0
COM 2P/ZB45	0	0	0	0	0	-	0	0	-	-	0	0	0	0	0	0
COM 2P/ZB50	0	0	0	0	0	-	0	0	-	-	0	0	0	0	0	0
COM 3P/ZB38	0	0	0	0	0	-	0	0	-	-	0	0	0	0	0	0
COM 2P/ZB66	0	0	0	0	0	-	0	0	-	-	0	0	0	0	0	0
COM 3P/ZB45	0	0	0	0	0	-	0	0	-	-	0	0	0	0	0	0
COM 3P/ZB50	0	0	0	0	0	-	0	-	0	-	0	0	0	0	0	0
COM 2P/ZB76	0	0	0	0	0	-	0	-	0	-	0	0	0	0	0	0
COM 2P/ZB95	0	0	0	0	0	-	0	-	0	-	0	0	0	0	0	0
COM 3P/ZB66	0	0	0	0	0	-	0	-	0	-	0	0	0	0	0	0
COM 4P/ZB50	0	0	0	0	0	-	0	-	0	-	0	0	0	0	0	0
COM 2P/ZB114	0	0	0	0	0	-	0	-	0	-	0	0	0	0	0	0
COM 3P/ZB76	0	0	0	0	0	-	0	-	0	-	0	0	0	0	0	0
COM 4P/ZB66	0	0	0	0	0	-	0	-	0	-	0	0	0	0	0	0
COM 3P/ZB95	0	0	0	0	0	-	0	-	0	-	0	0	0	0	0	0
COM 4P/ZB76	0	0	0	0	0	-	0	-	0	-	0	0	0	0	0	0
COM 3P/ZB114	0	0	0	0	0	-	0	-	-	0	0	0	-	0	0	0
COM 4P/ZB95	0	0	0	0	0	-	0	-	-	0	0	0	-	0	0	0
COM 4P/ZB114	0	0	0	0	0	-	0	-	-	0	0	0	-	0	0	0

COMPACT - Scroll

Low temperature range

-35°C/+40°C *		COM ...	2N ZF15	3N ZF15	2N ZF24	2N ZF33	3N ZF24	2N ZF40	4N ZF24
Capacity R404A*		kW	6,1	9,2	9,3	12,7	13,9	15,8	18,5
Input power*		kW	5,7	8,5	9,0	11,7	13,6	14,8	18,1
Compressor		Nb	2	3	2	2	3	2	4
Max. input current		A	16	24	25	32	38	38	50
Receiver volume		l.	45	45	45	45	45	60	60
Standard connection package	Discharge	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 dimensions	L	mm	666	666	666	666	666	666	666
	P	mm	402	402	402	402	402	402	402
	H	mm	1137	1137	1137	1137	1137	1338	1338
Receiver weight		kg	60	60	60	60	60	80	80

-35°C/+40°C *		COM ...	2N ZF48	3N ZF33	3N ZF40	4N ZF33	3N ZF48	4N ZF40	4N ZF48
Capacity R404A*		kW	19,0	19,1	23,6	25,5	28,5	31,5	38,0
Input power*		kW	19,4	17,5	22,2	23,3	29,1	29,6	38,8
Compressor		Nb	2	3	3	4	3	4	4
Max. input current		A	49	48	57	64	73	76	98
Receiver volume		l.	60	60	60	60	60	60	120
Standard connection package	Discharge	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 dimensions	L	mm	666	666	666	666	666	666	714
	P	mm	402	402	402	402	402	402	455
	H	mm	1338	1338	1338	1338	1338	1338	1834
Receiver weight		kg	80	80	80	80	80	80	120

* Evaporation temperature / condensation temperature - Superheating 10K, subcooling 3K.

Refer to the software package for a more accurate rack selection.

	BPS	HPG	BP1	HPS	CDP	BAC	TXL	RLS 60 l.	RLS 120 l.	RLS 150 l.	ALF	ALR	SSD	BDR	PAV	ARM
COM 2N/ZF15	0	0	0	0	0	-	S	0	-	-	0	0	0	0	0	0
COM 3N/ZF15	0	0	0	0	0	-	S	0	-	-	0	0	0	0	0	0
COM 2N/ZF24	0	0	0	0	0	-	S	0	-	-	0	0	0	0	0	0
COM 2N/ZF33	0	0	0	0	0	-	S	0	-	-	0	0	0	0	0	0
COM 3N/ZF24	0	0	0	0	0	-	S	0	-	-	0	0	0	0	0	0
COM 2N/ZF40	0	0	0	0	0	-	S	-	0	-	0	0	0	0	0	0
COM 4N/ZF24	0	0	0	0	0	-	S	-	0	-	0	0	0	0	0	0
COM 2N/ZF48	0	0	0	0	0	-	S	-	0	-	0	0	0	0	0	0
COM 3N/ZF33	0	0	0	0	0	-	S	-	0	-	0	0	0	0	0	0
COM 3N/ZF40	0	0	0	0	0	-	S	-	0	-	0	0	0	0	0	0
COM 4N/ZF33	0	0	0	0	0	-	S	-	0	-	0	0	0	0	0	0
COM 3N/ZF48	0	0	0	0	0	-	S	-	0	-	0	0	0	0	0	0
COM 4N/ZF40	0	0	0	0	0	-	S	-	0	-	0	0	0	0	0	0
COM 4N/ZF48	0	0	0	0	0	-	S	-	-	0	0	0	-	0	0	0

