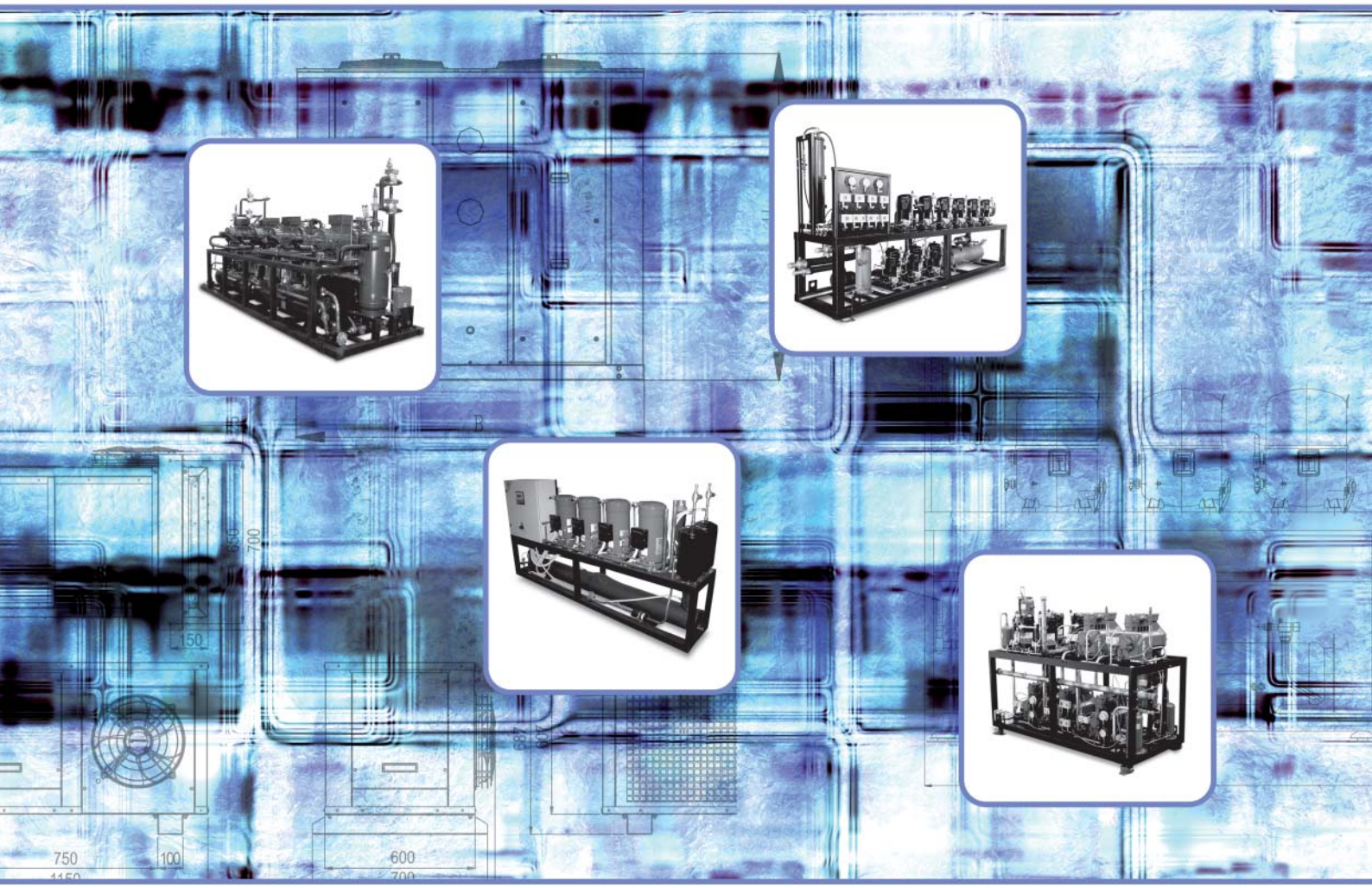


COMPRESSOR PACK SYSTEMS

COMPRESSOR PACK SYSTEMS

CONTENTS

GENERAL INFORMATION

Compressor packs of 2 up to 6 compressors connected in parallel. Connection of more than two compressors is realized generally with an active low pressure oil management system.

STANDARD EQUIPMENT

Compressors 3/400V/50Hz equipped with
— shut-off valves both on discharge and suction side
— oil sight-glass
— motor protection
— crankcase heater
— liquid injection (only ZF compressors)
— external check valve on discharge side
— cylinder head fan for low temperature application compressors

Protection and control
— common dual HP/LP pressure switch
— differential pressure switch on each compressor with an oil pump
— LP gauge
— HP gauge
— elastic capillary connections

Suction line
— closed with a cap

Discharge line
— closed with a cap

Liquid receiver conforming PED and equipped with
— two safety valves and a dual shut-off valve
— shut-off valves on inlet and outlet side
— sight-glasses for liquid level control

Frame
— made of steel, oven painted
— two floor with compressors mounted on the upper floor
— based on vibration absorbers

Oil equilibrium line equipped with
— sight-glass for oil flow control

Active, low pressure oil management system composed of
— oil separator with a check valve on the outlet side
— oil receiver with an oil sight-glass and a pressure valve
— oil filter
— oil sight-glass
— individual oil level regulators
— connection by flexible piping
— shut-off valve before each oil regulator

OPTIONAL EQUIPMENT

Liquid receiver
— other capacity
— equipped with level alarm

Additional pressure switches

Filter drier with a shut-off valve on the liquid line

Mechanical filter with a shut-off valve on the suction line

Systems with a satellite compressor

Complete power supply/control box

NOTE

This catalogue contains only examples of compressor packs. Each offered unit is designed and optimised for a particular application. The optimisation comprises the selection of compressor type, number of compressors, structure and overall dimensions. Please consult our engineers.

PISTON HERMETIC AND SCROLL COMPRESSOR PACK SYSTEMS

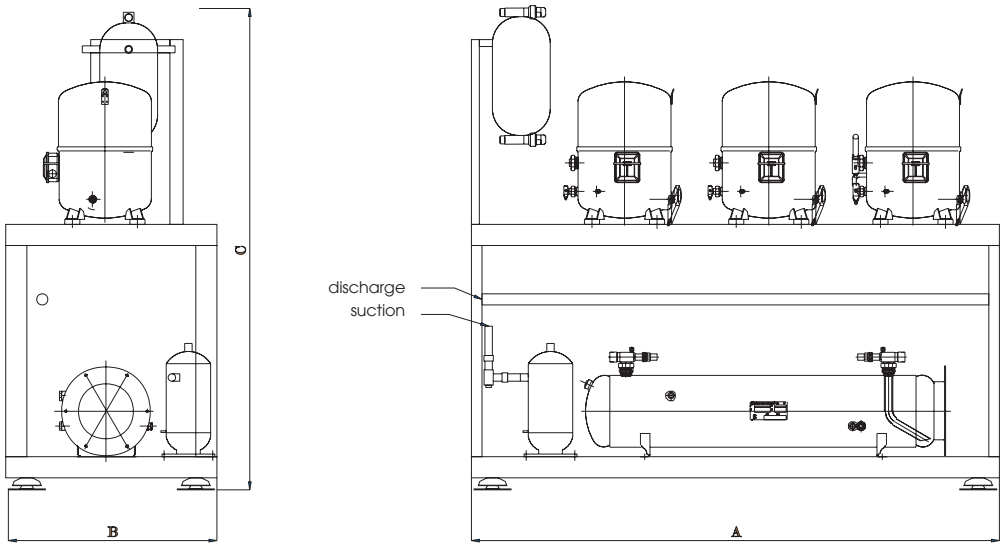
Packs of 2 up to 6 (in particular cases up to 10) compressors from our standard offer connected in parallel. Electronic oil level regulators used in an active oil management system switch the compressor off in a case of oil shortage.

OPTIONAL EQUIPMENT

— shut off valve on discharge header
— shut-off valve on suction header
— oil separator with a check valve on discharge for two compressors
— an active oil management system for two compressors
— mechanical filter on suction with a shut off valve
— filter drier with a shut-ff valve on liquid line

NOTE

This catalogue contains only examples of compressor packs. Each offered unit is designed and optimised for a particular application. The optimisation comprises the selection of compressor type, number of compressors, structure and overall dimensions. Please consult our engineers.



HIGH TEMPERATURE RANGE R407C

Model	Te					
	-5		0		+5	
	Pe	Po	Pe	Po	Pe	Po
SZ84x3	14.88	39390	14.94	48909	14.97	60270
SZ90x3	15.63	41754	15.69	51867	15.69	63621
SZ115x3	20.52	55494	20.49	68778	20.40	84078
SZ160x3	28.20	77331	28.35	95619	28.41	116790
SZ185x3	32.79	89511	32.97	110445	33.06	134574
SZ84x4	19.84	52520	19.92	65212	19.96	80360
SZ90x4	20.84	55672	20.92	69156	20.92	84828
SZ115x4	27.36	73992	27.32	91704	27.20	112104
SZ160x4	37.60	103108	37.80	127492	37.88	155720
SZ185x4	43.72	119348	43.96	147260	44.08	179432

Te - Evaporating temperature (^{O}C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Operating conditions:
Condensing temperature +45^{O}C
Suction superheating: 11.1K
Liquid subcooling: 8.3K

Model	Receiver		Connections		Dimensions			Weight
	Capacity	Connections	Suction	Discharge	A	B	C	
	dm^3	mm	mm	mm	mm	mm	mm	kg
SZ84x3	50	22	54	35	2000	800	1850	420
SZ90x3	50	28	54	35				420
SZ115x3	50	35	64	42				440
SZ160x3	70	35	64	54				510
SZ185x3	70	42	76	54				550
SZ84x4	50	35	64	42	2500	800	1850	530
SZ90x4	50	35	64	42				530
SZ115x4	70	35	76	54				600
SZ160x4	90	42	76	54				680
SZ185x4	90	42	81	64				720

Model	Te					
	-5		0		+5	
	Pe	Po	Pe	Po	Pe	Po
ZR81x3	13.80	36000	13,80	44400	14,10	54000
ZR94x3	16.80	44700	16,80	54900	16,80	66300
ZR125x3	21.90	58500	21,30	71700	21,60	87000
ZR160x3	27.30	69900	27,60	87900	27,60	108900
ZR190x3	33.00	84600	33,00	104400	33,30	126900
ZR81x4	18.40	48000	18,40	59200	72,00	72000
ZR94x4	22.40	59600	22,40	73200	88,40	88400
ZR125x4	28.40	78000	28,40	95600	116,00	116000
ZR160x4	36.40	93200	36,80	117200	145,20	145200
ZR190x4	44.00	112800	44,00	139200	169,20	169200

Te - Evaporating temperature (^{O}C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Operating conditions:
Condensing temperature +45^{O}C
Suction gas return: +20^{O}C

Model	Receiver		Connections		Dimensions			Weight
	Capacity	Connections	Suction	Discharge	A	B	C	
	dm^3	mm	mm	mm	mm	mm	mm	kg
ZR81x3	50	22	54	35	2000	800	1850	321
ZR94x3	50	28	54	35				375
ZR125x3	50	35	64	42				383
ZR160x3	70	35	64	54				423
ZR190x3	70	42	76	54				439
ZR81x4	50	35	64	42	2500	800	1850	398
ZR94x4	50	35	64	42				470
ZR125x4	70	35	76	54				524
ZR160x4	90	42	76	54				564
ZR190x4	90	42	81	64				572

MEDIUM TEMPERATURE RANGE R404A/R507A

Model	Te					
	-10		-5		0	
	Pe	Po	Pe	Po	Pe	Po
MTZ 80x3	17.52	35988	19.17	45531	20.64	56523
MTZ100x3	20.49	41103	22.08	52839	23.43	66744
MTZ125x3	25.59	53736	27.69	68226	29.61	85284
MTZ160x3	32.97	69258	35.91	87369	38.73	108606
MTZ80x4	23.36	47984	25.56	60708	27.52	75364
MTZ100x4	27.32	54804	29.44	70452	31.24	88992
MTZ125x4	34.12	71648	36.92	90968	39.48	113712
MTZ160x4	43.96	92344	47.88	116492	51.64	144808

Te - Evaporating temperature (^{O}C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Operating conditions:
Condensing temperature +45^{O}C
Suction superheating: 11.1K
Liquid subcooling: 8.3K

Model	Receiver		Connections		Dimensions			Weight
	Capacity	Connections	Suction	Discharge	A	B	C	
	dm^3	mm	mm	mm	mm	mm	mm	kg
MTZ 80x3	50	28	54	28	1500	800	1850	310
MTZ100x3	50	28	54	35	2000	800	1850	380
MTZ125x3	70	35	54	42				420
MTZ160x3	70	35	64	42				450
MTZ80x4	50	28	54	35	2000	800	1850	370
MTZ100x4	70	35	64	35	2500	800	1850	520
MTZ125x4	70	42	64	42				540
MTZ160x4	90	42	76	42				580

Model	Te					
	-10		-5		0	
	Pe	Po	Pe	Po	Pe	Po
ZB45x3	14.4	30350	14.4	36300	14.4	43200
ZB58x3	18.9	39900	18.9	48300	18.9	57900
ZB76x3	25.2	33700	24.6	64200	24.6	76500
ZB95x3	31.5	65100	31.8	78900	32.1	94200
ZB114x3	37.8	77400	38.1	94200	38.1	113400
ZB45x4	19.2	40400	19.2	48400	19.2	57600
ZB58x4	25.2	53200	25.2	64400	25.2	77200
ZB76x4	33.6	71600	32.8	85600	32.8	102000
ZB95x4	42	86800	42.4	115200	42.8	125600
ZB114x4	50.4	103200	50.8	125600	50.8	151200

Te - Evaporating temperature (^{O}C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Operating conditions:
Condensing temperature +45^{O}C
Suction gas return: +20^{O}C

Model	Receiver		Connections		Dimensions			Weight
	Capacity	Connections	Suction	Discharge	A	B	C	
	dm^3	mm	mm	mm	mm	mm	mm	kg
ZB45x3	50	22	54	28	1500	800	1850	305
ZB58x3	50	28	54	28				370
ZB76x3	70	35	54	35	2000	800	1850	425
ZB95x3	70	35	64	42				425
ZB114x3	70	42	76	42				441
ZB45x4	50	28	54	28	2000	800	1850	370
ZB58x4	70	28	54	35				480
ZB76x4	70	35	64	35	2500	800	1850	540
ZB95x4	90	42	76	42				560
ZB114x4	115	42	76	42				607

LOW TEMPERATURE RANGE R404A/R507A

Model	Te					
	-40		-32		-30	
	Pe	Po	Pe	Po	Pe	Po
ZF18x3	9.87	9870	11.04	12510	10.59	15540
ZF24x3	12.87	12060	13.56	15510	14.22	19350
ZF33x3	17.55	15360	18.60	21060	19.80	26880
ZF40x3	21.00	20070	22.20	26370	23.40	33210
ZF48x3	25.35	23610	27.00	29880	28.35	37260
ZF18x4	13.16	13160	14.72	16680	14.12	20720
ZF24x4	17.16	16080	18.08	20680	18.96	25800
ZF33x4	23.40	20480	24.80	28080	26.40	35840
ZF40x4	28.00	26760	29.60	35160	31.20	44280
ZF48x4	33.80	31480	36.00	39840	37.80	49680

Te - Evaporating temperature (^{O}C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Operating conditions:
Condensing temperature +45^{O}C
Suction gas return: +20^{O}C

Model	Receiver		Connections		Dimensions			Weight
	Capacity	Connections	Suction	Discharge	A	B	C	
	dm^3	mm	mm	mm	mm	mm	mm	kg
ZF18x3	50	16	54	16	1500	800	1850	320
ZF24x3	50	16	54	16				320
ZF33x3	50	16	64	22				490
ZF40x3	70	22	64	28				550
ZF48x3	70	22	64	28				590
ZF18x4	50	16	54	16	2000	800	1850	380
ZF24x4	50	16	64	22				380
ZF33x4	70	22	64	28				640
ZF40x4	70	22	76	35				690
ZF48x4	70	28	81	35				730

PISTON SEMIHERMETIC COMPRESSOR PACK SYSTEMS

Packs of 2 up to 6 compressors from our standard offer connected in parallel. In an active oil control system the mechanical type oil regulators are used.

OPTIONAL EQUIPMENT

— shut off valve on discharge header
— shut-off valve on suction header
— oil separator with a check valve on discharge for two compressors
— an active oil management system for two compressors
— mechanical filter on suction with a shut off valve
— filter drier with a shut-ff valve on liquid line

COMPRESSOR OPTIONAL EQUIPMENT

— capacity control (1 step or 2 steps)
— unloaded start kit

NOTE

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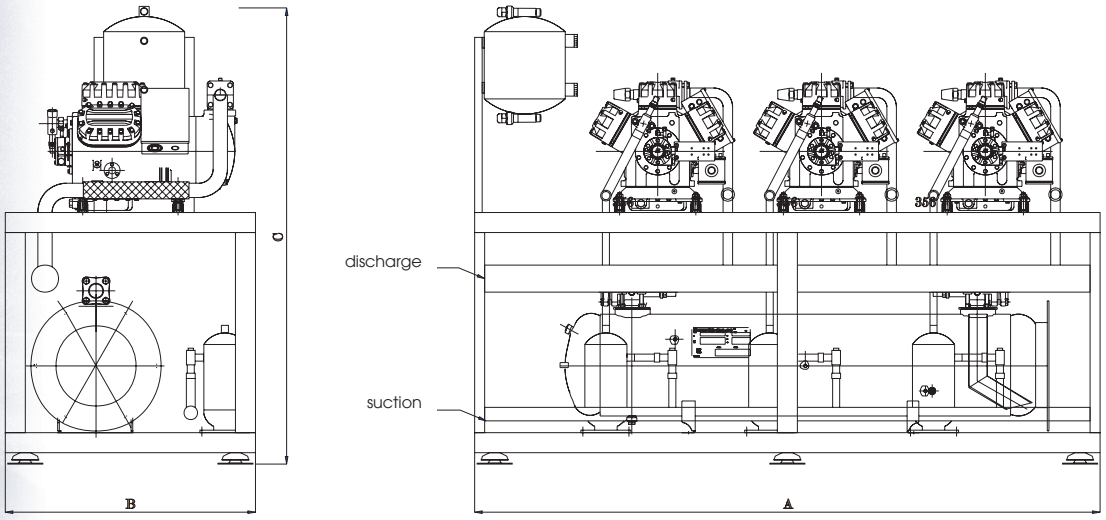


MEDIUM TEMPERATURE RANGE R404A/R507A

Model	Te					
	-10		-5		0	
	Pe	Po	Pe	Po	Pe	Po
D4DA200Xx2	24.4	59400	26.6	73000	28.4	88000
D4DH250Xx2	32.6	75000	35.4	92000	37.6	111000
D4DJ300Xx2	40.6	86000	44	104000	47.2	124000
D6DH350Xx2	48.8	112000	52.6	135000	56.2	162000
D6DJ400Xx2	61	130000	66.4	157000	24	189000
D8DH500Xx2	66.4	155000	71.6	188000	76	226000
D8DJ600Xx2	83.8	181000	90.6	220000	96.8	265000
D3DA75Xx3	20.7	49800	22.2	60900	23.4	73500
D3DC100Xx3	24.75	59400	26.4	72000	27.9	87000
D3DS150Xx3	33.9	79500	36.3	96000	38.4	115500
D4DA200Xx3	36.6	89100	39.9	109500	42.6	132000
D4DH250Xx3	48.9	112500	53.1	138000	56.4	166500
D4DJ300Xx3	60.9	129000	66	156000	70.8	186000
D6DH350Xx3	73.2	168000	78.9	202500	84.3	243000
D6DJ400Xx3	91.5	195000	99.6	235500	36	283500
D8DH500Xx3	99.6	232500	107.4	282000	114	339000
D8DJ600Xx3	125.7	271500	135.9	330000	145.2	397500
D3DA75Xx4	27.6	66400	29.6	81200	31.2	98000
D3DC100Xx4	33	79200	35.2	96000	37.2	116000
D3DS150Xx4	45.2	106000	48.4	128000	51.2	154000
D4DA200Xx4	48.8	118800	53.2	146000	56.8	176000
D4DH250Xx4	65.2	150000	70.8	184000	75.2	222000
D4DJ300Xx4	81.2	172000	88	208000	94.4	248000
D6DH350Xx4	97.6	224000	105.2	270000	112.4	324000
D6DJ400Xx4	122	260000	132.8	314000	48	378000
D6DH500Xx4	132.8	310000	143.2	376000	152	452000
D8DJ600Xx4	167.6	362000	181.2	440000	193.6	530000

Te - Evaporating temperature (^{O}C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Operating conditions:
Condensing temperature +45^{O}C
Suction gas return: +20^{O}C

Model	Receiver		Connections		Dimensions			Weight
	Capacity	Connections	Suction	Discharge	A	B	C	
	dm^3	mm	mm	mm	mm	mm	mm	kg
D4DA200Xx2	70	35	64	35	1700	1000	1850	680
D4DH250Xx2	90	35	64	42				730
D4DJ300Xx2	115	42	64	42				780
D6DH350Xx2	160	42	76	54				860
D6DJ400Xx2	160	54	81	54				900
D8DH500Xx2	220A	54	108	54	2000	1200	1850	1120
D8DJ600Xx2	220	54	108	66				1150
D3DA75Xx3	90	35	54	35	2000	800	1850	740
D3DC100Xx3	115	35	54	35				820
D3DS150Xx3	11	42	64	42				840
D4DA200Xx3	160	42	76	42	2500	1000	1850	1030
D4DH250Xx3	160	42	81	54				1080
D4DJ300Xx3	160	54	81	54				1100
D6DH350Xx3	220	54	2 x 64	66				1230
D6DJ400Xx3	220	64	2 x 64	66				1280
D8DH500Xx3	220	64	2 x 81	76	2500	1200	1850	1570
D8DJ600Xx3	320	64	3 x 81	76				1630
D3DA75Xx4	115	35	64	42	2500	1000	1850	1000
D3DC100Xx4	115	42	64	42				1050
D3DS150Xx4	160	42	76	54				1090
D4DA200Xx4	160	54	81	54	3000	1000	1850	1310
D4DH250Xx4	220	54	2 x 64	66				1410
D4DJ300Xx4	220	54	2 x 64	66				1450
D6DH350Xx4	220	64	108	66				1570
D6DJ400Xx4	220	64	108	76				1650
D6DH500Xx4	320	76	108	76	3300	1200	1850	2050
D8DJ600Xx4	320	76	3 x 81	76				2090

MEDIUM TEMPERATURE RANGE R404A/R507A

Model	Te					
	-10		-5		0	
	Pe	Po	Pe	Po	Pe	Po
D4SA200Xx2	25.2	56600	27.4	69000	29.2	84000
D4SF100Xx2	26.2	56400	28.2	69000		
D4SH250Xx2	32.8	69000	35.6	84000	38	102000
D4SL150Xx2	34.6	72000	38	87000		
D6SA300Xx2	38.4	82000	42.2	100000	45.8	121000
D6SF200Xx2	39	84000	42.4	101000		
D4SJ300Xx2	39.6	84000	43.4	104000	47	125000
D4ST200Xx2	40	86000	43.8	105000		
D6SH350Xx2	51	102000	55.4	125000	59.8	151000
D6SL250Xx2	51.4	105000	56.2	126000		
D6SJ400Xx2	58.2	119000	63.6	145000	68.8	175000
D6ST300Xx2	61.4	122000	67.8	148000		
D6ST320Xx2	61.4	122000	67.8	148000		
D8SH370Xx2	70.4	148000	76.4	178000		
D8SH500Xx2	69.2	144000	76	176000	82.4	213000
D8SJ450Xx2	80.4	179000	88	218000		
D8SJ600Xx2	79.4	174000	87.2	214000	94.4	259000
D3SC75Xx3	27.6	84900	30.9	63300		
D3SS100Xx3	36.9	73500	40.8	89100		
D4SA200Xx3	37.8	84900	41.1	103500	43.8	126000
D4SF100Xx3	39.3	84600	42.3	103500		
D4SH250Xx3	49.2	103500	53.4	126000	57	153000
D4SL150Xx3	51.9	108000	57	130500		
D6SA300Xx3	57.6	123000	63.3	150000	68.7	181500
D6SF200Xx3	58.5	126000	63.6	151500		
D4SJ300Xx3	59.4	126000	65.1	156000	70.5	187500
D4ST200Xx3	60	129000	65.7	157500		
D6SH350Xx3	76.5	153000	83.1	187500	89.7	226500
D6SL250Xx3	77.1	157500	84.3	189000		
D6SJ400Xx3	87.3	178500	95.4	217500	103.2	262500
D6ST300Xx3	92.1	183000	101.7	222000		
D6ST320Xx3	92.1	183000	101.7	222000		
D8SH370Xx3	105.6	222000	114.6	267000		
D8SH500Xx3	103.8	216000	114	264000	123.6	319500
D8SJ450Xx3	120.6	268500	132	327000		
D8SJ600Xx3	119.1	261000	130.8	321000	141.6	388500

Te - Evaporating temperature (^{O}C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Operating conditions:
Condensing temperature +45^{O}C
Suction gas return: +20^{O}C

R404A/R507A MEDIUM TEMPERATURE RANGE

Model	Receiver		Connections		Dimensions			Weight
	Capacity	Connections	Suction	Discharge	A	B	C	
	dm^3	mm	mm	mm	mm	mm	mm	kg
D4SA200Xx2	70	35	54	35	1700	1000	1850	650
D4SF100Xx2	70	35	54	35				640
D4SH250Xx2	70	35	64	42				680
D4SL150Xx2	90	35	64	42				680
D6SA300Xx2	90	42	64	42				740
D6SF200Xx2	90	42	64	42				730
D4SJ300Xx2	90	42	64	42				730
D4ST200Xx2	90	42	76	42				710
D6SH350Xx2	115	42	76	54				800
D6SL250Xx2	115	42	76	54				780
D6SJ400Xx2	115	54	81	54				860
D6ST300Xx2	160	54	81	54				880
D6ST320Xx2	160	54	108	54				880
D8SH370Xx2	160	54	108	54	2000	1200	1850	1060
D8SH500Xx2	160	54	108	54				1090
D8SJ450Xx2	160	54	108	54				1130
D8SJ600Xx2	220	54	108	66				1180
D3SC75Xx3	70	35	54	35	2000	800	1850	760
D3SS100Xx3	70	35	64	42				780
D4SA200Xx3	90	42	64	42	2500	1000	1850	930
D4SF100Xx3	90	42	64	42				920
D4SH250Xx3	115	42	76	54				1000
D4SL150Xx3	115	42	76	54				990
D6SA300Xx3	160	54	81	54				1100
D6SF200Xx3	160	54	81	54				1090
D4SJ300Xx3	160	54	81	54				1080
D4ST200Xx3	160	54	81	54				1050
D6SH350Xx3	160	54	108	54				1140
D6SL250Xx3	160	54	108	64				1120
D6SJ400Xx3	160	54	108	64				1230
D6ST300Xx3	220	64	2 x 81	64				1280
D6ST320Xx3	220	64	2 x 81	64				1280
D8SH370Xx3	220	64	2 x 108	64	2500	1200	1850	1520
D8SH500Xx3	220	64	2 x 108	64				1560
D8SJ450Xx3	220	64	2 x 108	76				1630
D8SJ600Xx3	320	64	2 x 108	76				1690

MEDIUM TEMPERATURE RANGE R404A/R507A

Model	Te					
	-10		-5		0	
	Pe	Po	Pe	Po	Pe	Po
D3SC75Xx4	36.80	113200	41.2	84400		
D3SS100Xx4	49.2	98000	54.4	118800		
D4SA200Xx4	50.4	113200	54.8	138000	58.4	168000
D4SF100Xx4	52.4	112800	56.4	138000		
D4SH250Xx4	65.6	138000	71.2	168000	76	204000
D4SL150Xx4	69.2	144000	76	174000		
D6SA300Xx4	76.8	164000	84.4	200000	91.6	242000
D6SF200Xx4	78	168000	84.8	202000		
D4SJ300Xx4	79.2	168000	86.8	208000	94	250000
D4ST200Xx4	80	172000	87.6	210000		
D6SH350Xx4	102	204000	110.8	250000	119.6	302000
D6SL250Xx4	102.8	210000	112.4	252000		
D6SJ400Xx4	116.4	238000	127.2	290000	137.6	350000
D6ST300Xx4	122.8	244000	135.6	296000		
D6ST320Xx4	122.8	244000	135.6	296000		
D8SH370Xx4	140.8	296000	152.8	356000		
D8SH500Xx4	138.4	288000	152	352000	164.8	426000
D8SJ450Xx4	160.8	358000	176	436000		
D8SJ600Xx4	158.8	348000	174.4	428000	188.8	518000

Te - Evaporating temperature (^{O}C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Operating conditions:
Condensing temperature +45^{O}C
Suction gas return: +20^{O}C

R404A/R507A MEDIUM TEMPERATURE RANGE

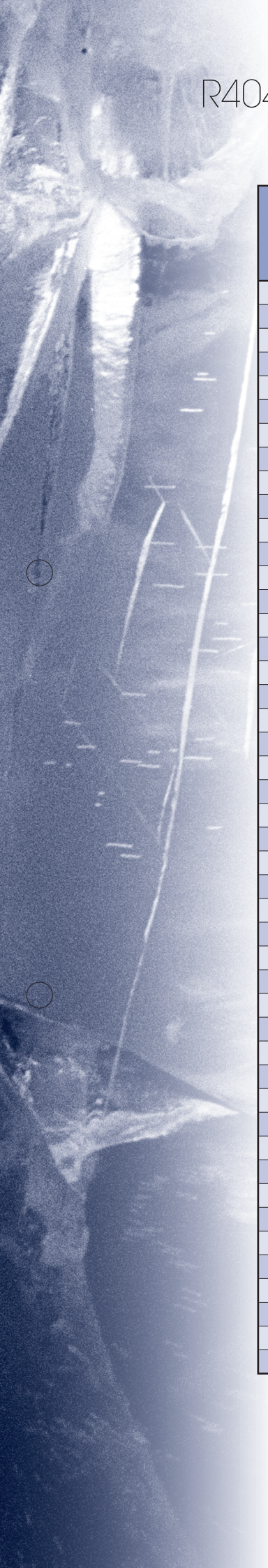
Model	Receiver		Connections		Dimensions			Weight
	Capacity	Connections	Suction	Discharge	A	B	C	
	dm^3	mm	mm	mm	mm	mm	mm	kg
D3SC75Xx4	90	42	64	42	2500	1000	1850	1010
D3SS100Xx4	115	42	64	54				1060
D4SA200Xx4	115	42	76	54	3000	1000	1850	1240
D4SF100Xx4	115	42	76	54				1220
D4SH250Xx4	160	42	81	54				1300
D4SL150Xx4	160	54	81	54				1270
D6SA300Xx4	160	54	108	64				1380
D6SF200Xx4	160	54	108	64				1370
D4SJ300Xx4	160	54	108	64				1370
D4ST200Xx4	160	54	108	64				1320
D6SH350Xx4	220	54	2 x 81	64				1490
D6SL250Xx4	220	54	2 x 81	64				1450
D6SJ400Xx4	220	64	2 x 81	76				1610
D6ST300Xx4	220	64	2 x 81	76				1610
D6ST320Xx4	220	64	2 x 81	76				1610
D8SH370Xx4	220	64	2 x 108	76	3300	1200	1850	1920
D8SH500Xx4	220	64	2 x 108	76				1970
D8SJ450Xx4	220	64	2 x 108	76				2060
D8SJ600Xx4	320	64	2 x 108	88				2120

MEDIUM TEMPERATURE RANGE R404A/R507A

Model	Te					
	-10		-5		0	
	Pe	Po	Pe	Po	Pe	Po
V25 71Yx2	31.3	71260	34.1	86360	36.66	104060
V30 84Yx2	38.28	85520	41.74	103360	45.04	124300
V32 93Yx2	44.76	95040	48.82	114880	52.62	138160
V35 103Yx2	52.12	105040	57.24	126980	62.24	152700
Z40 126Yx2	57.76	129560	62.98	156960	67.86	189120
W40 142Yx2	64.1	148160	70.86	179720	77.54	216720
Z50 154Yx2	73.42	159480	79.46	193360	84.96	233080
W50 168Yx2	74.46	175860	81.8	213180	88.98	256960
W60 187Yx2	83.08	194740	91.06	236260	98.74	285000
W70 206Yx2	91.9	214480	99.24	259800	106.06	312980
W75 228Yx2	102.08	239720	110.94	292100	118.88	352260
W80 240Yx2	107.02	251560	116.3	306520	124.62	369660
Q7 33Yx3	22.38	49260	23.64	59460	24.69	71430
S10 39Yx3	26.01	59820	27.93	72150	27.06	86640
S15 51Yx3	33.06	76620	35.76	92820	38.28	111810
S20 56Yx3	37.86	88110	41.07	106590	44.1	128280
V25 71Yx3	46.95	106890	51.15	129540	54.99	156090
V30 84Yx3	57.42	128280	62.61	155040	67.56	186450
V32 93Yx3	67.14	142560	73.23	172320	78.93	207240
V35 103Yx3	78.18	157560	85.86	190470	93.36	229050
Z40 126Yx3	86.64	194340	94.47	235440	101.79	283680
W40 142Yx3	96.15	222240	106.29	269580	116.31	325080
Z50 154Yx3	110.13	239220	119.19	290040	127.44	349620
W50 168Yx3	111.69	263790	122.7	319770	133.47	385440
W60 187Yx3	124.62	292110	136.59	354390	148.11	427500
W70 206Yx3	137.85	321720	148.86	389700	159.09	469470
W75 228Yx3	153.12	359580	166.41	438150	178.32	528390
W80 240Yx3	160.53	377340	174.45	459780	186.93	554490
Q7 33Yx4	29.84	65680	31.52	79280	32.92	95240
S10 39Yx4	34.68	79760	37.24	96200	36.08	115520
S15 51Yx4	44.08	102160	47.68	123760	51.04	149080
S20 56Yx4	50.48	117480	54.76	142120	58.8	171040
V25 71Yx4	62.6	142520	68.2	172720	73.32	208120
V30 84Yx4	76.56	171040	83.48	206720	90.08	248600
V32 93Yx4	89.52	190080	97.64	229760	105.24	276320
V35 103Yx4	104.24	210080	114.48	253960	124.48	305400
Z40 126Yx4	115.52	259120	125.96	313920	135.72	378240
W40 142Yx4	128.2	296320	141.72	359440	155.08	433440
Z50 154Yx4	146.84	318960	158.92	386720	169.92	466160
W50 168Yx4	148.92	351720	163.6	426360	177.96	513920
W60 187Yx4	166.16	389480	182.12	472520	197.48	570000
W70 206Yx4	183.8	428960	198.48	519600	212.12	625960
W75 228Yx4	204.16	479440	221.88	584200	237.76	704520
W80 240Yx4	214.04	503120	232.6	613040	249.24	739320

Te - Evaporating temperature (^{O}C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Operating conditions:
Condensing temperature +45^{O}C
Suction gas return: +20^{O}C



R404A/R507A MEDIUM TEMPERATURE RANGE

Model	Receiver		Connections		Dimensions			Weight
	Capacity	Connections	Suction	Discharge	A	B	C	
	dm³	mm	mm	mm	mm	mm	mm	kg
V25 71Yx2	90	35	64	35	1700	1000	1850	670
V30 84Yx2	115	42	76	35				720
V32 93Yx2	115	42	76	42				730
V35 103Yx2	115	42	76	42				730
Z40 126Yx2	115	54	81	54	2000	1200	1850	880
W40 142Yx2	160	54	81	54				1050
Z50 154Yx2	160	54	108	54				940
W50 168Yx2	220	54	108	54				1130
W60 187Yx2	220	54	108	54				1150
W70 206Yx2	220	64	108	66				1170
W75 228Yx2	220	64	2 x 81	66				1170
W80 240Yx2	320	64	2 x 108	66				1230
Q7 33Yx3	70	28	54	28	2000	800	1850	490
S10 39Yx3	70	35	54	35				650
S15 51Yx3	90	42	64	35				690
S20 56Yx3	115	42	76	42				750
V25 71Yx3	115	42	76	42	2500	1000	1850	970
V30 84Yx3	115	54	81	54				1000
V32 93Yx3	160	54	81	54	2500	1200	1850	1015
V35 103Yx3	160	54	108	54	2500	1000	1850	1060
Z40 126Yx3	220	54	108	54	2500	1200	1850	1310
W40 142Yx3	220	64	2 x 81	66				1490
Z50 154Yx3	220	64	2 x 81	66				1330
W50 168Yx3	320	64	2 x 108	66				1640
W60 187Yx3	320	76	2 x 108	76				1670
W70 206Yx3	320	76	2 x 108	76				1650
W75 228Yx3	400	76	2 x 108	76				1690
W80 240Yx3	400	76	2 x 108	88				1690
Q7 33Yx4	70	35	64	42	2500	1000	1850	620
S10 39Yx4	90	42	64	42				850
S15 51Yx4	115	42	76	42				910
S20 56Yx4	115	54	88	42				940
V25 71Yx4	160	54	88	54	3000	1000	1850	1250
V30 84Yx4	160	54	108	54				1280
V32 93Yx4	220	54	108	66				1320
V35 103Yx4	220	54	108	66				1350
Z40 126Yx4	220	64	2 x 88	66	3300	1200	1850	1610
W40 142Yx4	320	76	2 x 108	76				1970
Z50 154Yx4	320	76	2 x 108	76				1760
W50 168Yx4	400	76	2 x 108	76				2050
W60 187Yx4	400	76	2 x 108	88				2090
W70 206Yx4	400	81	2 x 108	88				2140
W75 228Yx4	400	81	2 x108	88				2110
W80 240Yx4	400	81	3 x 108	88				2110

LOW TEMPERATURE RANGE R404A/R507A

Model	Te					
	-40		-35		-30	
	Pe	Po	Pe	Po	Pe	Po
D4DF100Xx2	10.8	10900	13.1	19300	15.6	25700
D4DL150Xx2	15	16100	17.7	26300	20.6	34000
D4DT220Xx2	17.8	19000	21.2	31000	24.6	39800
D6DL270Xx2	22	23900	25.8	38600	30	49800
D6DT320Xx2	27.2	28700	32	46400	37	59600
D8DL370Xx2	32.4	34800	38	56200	43.8	72000
D8DT450Xx2	37.8	40400	44.6	65000	51.8	83000
D3DA50Xx3	9.72	9150	11.49	16050	13.29	21000
D3DC75Xx3	11.49	11100	13.62	19200	15.75	25350
D3DS100Xx3	15.75	16800	18.45	27300	21.15	35250
D4DF100Xx3	16.2	16350	19.65	28950	23.4	38550
D4DL150Xx3	22.5	24150	26.55	39450	30.9	51000
D4DT220Xx3	26.7	28500	31.8	46500	36.9	59700
D6DL270Xx3	33	35850	38.7	57900	45	74700
D6DT320Xx3	40.8	43050	48	69600	55.5	89400
D8DL370Xx3	48.6	52200	57	84300	65.7	108000
D8DT450Xx3	56.7	60600	66.9	97500	77.7	124500
D3DA50Xx4	12.96	12200	15.32	21400	17.72	28000
D3DC75Xx4	15.32	14800	18.16	25600	21	33800
D3DS100Xx4	21	22400	24.6	36400	28.2	47000
D4DF100Xx4	21.6	21800	26.2	38600	31.2	51400
D4DL150Xx4	30	32200	35.4	52600	41.2	68000
D4DT220Xx4	35.6	38000	42.4	62000	49.2	79600
D6DL270Xx4	44	47800	51.6	77200	60	99600
D6DT320Xx4	54.4	57400	64	92800	74	119200
D8DL370Xx4	64.8	69600	76	112400	87.6	144000
D8DT450Xx4	75.6	80800	89.2	130000	103.6	166000

Te - Evaporating temperature (^{O}C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Operating conditions:
Condensing temperature +40^{O}C
Suction gas return: +20^{O}C

Model	Receiver		Connections		Dimensions			Weight
	Capacity	Connections	Suction	Discharge	A	B	C	
	dm^3	mm	mm	mm	mm	mm	mm	kg
D4DF100Xx2	70	22	64	22	1700	1000	1850	670
D4DL150Xx2	70	22	76	22				700
D4DT220Xx2	70	22	76	28				720
D6DL270Xx2	90	28	81	28				790
D6DT320Xx2	115	28	81	35				870
D8DL370Xx2	160	28	108	42	2000	1200	1850	1060
D8DT450Xx2	160	35	108	42				1100
D3DA50Xx3	50	22	54	22	2000	800	1850	670
D3DC75Xx3	70	16	54	22				740
D3DS100Xx3	70	22	64	28				760
D4DF100Xx3	90	22	64	28	2500	1000	1850	970
D4DL150Xx3	115	28	81	28				1040
D4DT220Xx3	115	28	81	35				1070
D6DL270Xx3	160	35	108	42				1170
D6DT320Xx3	160	35	108	42				1240
D8DL370Xx3	220	42	108	54	2500	1200	1850	1530
D8DT450Xx3	220	42	2 x 81	54				1580
D3DA50Xx4	70	16	64	22	2500	1000	1850	910
D3DC75Xx4	70	22	64	28				960
D3DS100Xx4	90	22	76	35				1000
D4DF100Xx4	90	28	2108	35	3000	1000	1850	1240
D4DL150Xx4	115	28	108	35				1320
D4DT220Xx4	115	35	108	35				1370
D6DL270Xx4	220	35	108	42				1550
D6DT320Xx4	220	42	108	54				1630
D8DL370Xx4	320	42	2 x 108	54	3300	1200	1850	2010
D8DT450Xx4	320	54	2 x 108	54				2060

LOW TEMPERATURE RANGE R404A/R507A

Model	Te					
	-40		-35		-30	
	Pe	Po	Pe	Po	Pe	Po
D4SF100Xx2	**10.9**	**9500**	13.36	18460	15.82	24520
D4SL150Xx2	**14.44**	**12760**	20.48	24180	20.48	31940
D6SF200Xx2	**15.6**	**13280**	22.94	26860	22.94	36260
D4ST200Xx2	**16.04**	**14300**	19.76	28140	23.56	37580
D6SL250Xx2	**20.78**	**17900**	25.44	34960	30.28	46560
D6ST320Xx2	**23.86**	**21460**	29.2	41320	34.88	54600
D8SH370Xx2	**28.58**	**24360**	35.14	48880	41.86	65440
D8SJ450Xx2	**32.24**	**29100**	39.58	58260	47.16	77820
D3SC75Xx3	**11.25**	**9750**	13.59	23100	15.93	29550
D3SS100Xx3	**17.58**	**13500**	20.7	24450	23.94	32400
D4SF100Xx3	**16.35**	**14250**	20.04	27690	23.73	36780
D4SL150Xx3	**21.66**	**19140**	30.72	36270	30.72	47910
D6SF200Xx3	**23.4**	**19920**	34.41	40290	34.41	54390
D4ST200Xx3	**24.06**	**21450**	29.64	42210	35.34	56370
D6SL250Xx3	**31.17**	**26850**	38.16	52440	45.42	69840
D6ST320Xx3	**35.79**	**32190**	43.8	61980	52.32	81900
D8SH370Xx3	**42.87**	**36540**	52.71	73320	62.79	98160
D8SJ450Xx3	**48.36**	**43650**	59.37	87390	70.74	116730
D3SC75Xx4	**15**	**13000**	18.12	23560	21.24	39400
D3SS100Xx4	**23.44**	**18000**	27.6	33360	31.92	43200
D4SF100Xx4	**21.8**	**19000**	26.72	36920	31.64	49040
D4SL150Xx4	**28.88**	**25520**	40.96	48360	40.96	63880
D6SF200Xx4	**31.2**	**26560**	45.88	53720	45.88	72520
D4ST200Xx4	**32.08**	**28600**	39.52	56280	47.12	75160
D6SL250Xx4	**41.56**	**35800**	50.88	69920	60.56	93120
D6ST320Xx4	**47.72**	**42920**	58.4	82640	69.76	109200
D8SH370Xx4	**57.16**	**48720**	70.28	97760	83.72	130880
D8SJ450Xx4	**64.48**	**58200**	79.16	116520	94.32	155640

Te - Evaporating temperature (^{O}C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Operating conditions:
Condensing temperature +40^{O}C
Suction gas return: +20^{O}C
Suction superheat: 10K

Model	Receiver		Connections		Dimensions			Weight
	Capacity	Connections	Suction	Discharge	A	B	C	
	dm³	mm	mm	mm	mm	mm	mm	kg
D4SF100Xx2	50	16	64	22	1700	1000	1850	600
D4SL150Xx2	70	22	64	28				660
D6SF200Xx2	70	22	64	28				710
D4ST200Xx2	70	22	64	28				690
D6SL250Xx2	90	28	76	28				740
D6ST320Xx2	115	28	81	28				850
D8SH370Xx2	160	28	81	35	2000	1200	1850	1050
D8SJ450Xx2	160	35	108	35				1120
D3SC75Xx3	50	16	54	22	2000	800	1850	740
D3SS100Xx3	70	22	64	28				790
D4SF100Xx3	70	22	64	28	2500	1000	1850	900
D4SL150Xx3	90	28	76	28				940
D6SF200Xx3	90	28	81	35				1020
D4ST200Xx3	115	28	81	35				1010
D6SL250Xx3	160	35	108	35				1100
D6ST320Xx3	160	35	108	42				1210
D8SH370Xx3	220	35	108	42	2500	1200	1850	1510
D8SJ450Xx3	220	42	2 x 81	42				1610
D3SC75Xx4	70	22	64	22	2500	1000	1850	980
D3SS100Xx4	90	28	76	35				1010
D4SF100Xx4	90	28	76	35	3000	1000	1850	1170
D4SL150Xx4	115	28	81	35				1240
D6SF200Xx4	160	35	108	35				1380
D4ST200Xx4	160	35	108	35				1320
D6SL250Xx4	160	35	108	42				1390
D6ST320Xx4	220	42	2 x 81	42				1590
D8SH370Xx4	220	42	2 x108	54	3300	1200	1850	1910
D8SJ450Xx4	320	42	2 x108	54				2100

LOW TEMPERATURE RANGE R404A/R507A

Model	Te					
	-40		-35		-30	
	Pe	Po	Pe	Po	Pe	Po
V15 71Yx2	13.92	18240	16.78	24780	19.78	32680
V20 84Yx2	17.26	23240	20.24	30780	23.18	39840
V25 93Yx2	19.7	25800	23.09	34180	27.08	44260
V25 103Yx2	21.78	28520	25.68	37780	30.14	48920
Z30 126Yx2	25.04	32940	30.52	44560	36.02	58560
Z40 154Yx2	32.22	41220	38.54	55700	45.94	73160
W40 168Yx2	32.36	45580	39.9	61540	46.52	80760
W50 187Yx2	35.92	50280	43.84	68040	51.14	89400
W60 206Yx2	47.04	55780	52.2	75340	62.38	98880
W70 228Yx2	48.92	58360	58.46	80720	68.42	107300
W75 240Yx2	51.86	61260	61.62	84720	71.52	112600
F4 24Yx3	8.52	9960	9.78	13200	11.16	17130
Q5 28Yx3	10.05	12150	11.55	15930	13.17	15930
Q5 33Yx3	10.29	12690	12.06	17040	13.98	22290
S7 39Yx3	12.9	16110	15.15	21360	17.31	27690
S15 56Yx3	16.62	21900	19.92	27900	22.86	39300
V15 71Yx3	20.88	27360	25.17	37170	29.67	49020
V20 84Yx3	25.89	34860	30.36	46170	34.77	59760
V25 93Yx3	29.55	38700	34.63	51270	40.62	66390
V25 103Yx3	32.67	42780	38.52	56670	45.21	73380
Z30 126Yx3	37.56	49410	45.78	66840	54.03	87840
Z40 154Yx3	48.33	61830	57.81	83550	68.91	109740
W40 168Yx3	48.54	68370	59.85	92310	69.78	121140
W50 187Yx3	53.88	75420	65.76	102060	76.71	134100
W60 206Yx3	70.56	83670	78.3	113010	93.57	148320
W70 228Yx3	73.38	87540	87.69	121080	102.63	160950
W75 240Yx3	77.79	91890	92.43	127080	107.28	168900
F4 24Yx4	11.36	13280	13.04	17600	14.88	22840
Q5 28Yx4	13.4	16200	15.4	21240	17.56	21240
Q5 33Yx4	13.72	16920	16.08	22720	18.64	29720
S7 39Yx4	17.2	21480	20.2	28480	23.08	36920
S15 56Yx4	22.16	29200	26.56	37200	30.48	52400
V15 71Yx4	27.84	36480	33.56	49560	39.56	65360
V20 84Yx4	34.52	46480	40.48	61560	46.36	79680
V25 93Yx4	39.4	51600	46.17	68360	54.16	88520
V25 103Yx4	43.56	57040	51.36	75560	60.28	97840
Z30 126Yx4	50.08	65880	61.04	89120	72.04	117120
Z40 154Yx4	64.44	82440	77.08	111400	91.88	146320
W40 168Yx4	64.72	91160	79.8	123080	93.04	161520
W50 187Yx4	71.84	100560	87.68	136080	102.28	178800
W60 206Yx4	94.08	111560	104.4	150680	124.76	197760
W70 228Yx4	97.84	116720	116.92	161440	136.84	214600
W75 240Yx4	103.72	122520	123.24	169440	143.04	225200

Te - Evaporating temperature (^{O}C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Operating conditions:
Condensing temperature +40^{O}C
Suction gas return: +20^{O}C

Model	Receiver		Connections		Dimensions			Weight
	Capacity	Connections	Suction	Discharge	A	B	C	
	dm³	mm	mm	mm	mm	mm	mm	kg
V15 71Yx2	50	22	64	28	1700	1000	1850	600
V20 84Yx2	70	22	76	28				650
V25 93Yx2	70	28	76	28				670
V25 103Yx2	70	28	81	28				670
Z30 126Yx2	90	28	81	35				790
Z40 154Yx2	115	35	108	35	2000	1200	1850	890
W40 168Yx2	115	35	108	42				1010
W50 187Yx2	160	35	108	42				1060
W60 206Yx2	160	35	108	42				1080
W70 228Yx2	160	42	108	42				1090
W75 240Yx2	160	42	108	42				1090
F4 24Yx3	36	16	54	22	2000	800	1850	430
Q5 28Yx3	36	16	54	22				450
Q5 33Yx3	36	16	54	22				450
S7 39Yx3	50	22	64	22				610
S15 56Yx3	70	22	76	28				690
V15 71Yx3	70	28	76	28	2500	1000	1850	870
V20 84Yx3	90	28	81	35				910
V25 93Yx3	115	35	108	35				980
V25 103Yx3	115	35	108	35				1000
Z30 126Yx3	160	35	108	42				1180
Z40 154Yx3	160	42	108	42	2500	1200	1850	1230
W40 168Yx3	160	42	2 x 81	42				1420
W50 187Yx3	220	42	2 x 81	54				1530
W60 206Yx3	220	42	2 x108	54				1550
W70 228Yx3	220	42	2 x108	54				1580
W75 240Yx3	220	42	2 x108	54				1580
F4 24Yx4	36	16	54	22	2500	1000	1850	540
Q5 28Yx4	50	22	64	22				570
Q5 33Yx4	50	22	64	28				580
S7 39Yx4	70	22	76	28				810
S15 56Yx4	70	28	76	35				860
V15 71Yx4	115	28	81	35	3000	1000	1850	1170
V20 84Yx4	115	35	108	35				1220
V25 93Yx4	160	35	108	42				1290
V25 103Yx4	160	35	108	42				1290
Z30 126Yx4	160	42	2 x 81	42				1490
Z40 154Yx4	220	42	2 x 108	42	3300	1200	1850	1620
W40 168Yx4	220	42	2 x 108	54				1880
W50 187Yx4	220	54	2 x 108	54				1950
W60 206Yx4	320	54	2 x 108	66				2050
W70 228Yx4	320	54	3 x 108	66				2080
W75 240Yx4	320	54	3 x 108	66				2080

SCREW COMPRESSOR PACK SYSTEMS

Units composed of 2 up to 6 screw compressors with external oil separator placed on two floor steel frame. They are equipped with a complete oil return system, an external oil separator and oil cooler (if necessary). In a case of low temperature applications individual economisers for each compressor are used.

STANDARD EQUIPMENT

Compressors equipped with
— shut-off valves on discharge and suction side
— internal check valve on discharge side
— complete oil return line
— capacity control system
— internal filter on suction side
— internal oil filter

Oil return line with
— oil filter
— oil sight-glass
— oil flow switch
— solenoid valve
— shut-off valve

Oil separator equipped with
— heater with thermostate
— oil level sensor
— oil sight-glass
— shut-off and check valve
— conforms PED

Oil cooler (if necessary)
— air cooled
— common or individual for each compressor
— oil temperature regulation by mixing valve

Complete economizer system (for low temperature application)
— plate heat exchanger
— expansion valve
— solenoid valve
— sight-glass
— strainer in vapour line
— filter drier in liquid line

Liquid receiver equipped with
— two safety valves and dual shut-off valve
— shut-off valves on inlet and outlet
— sight-glasses for level control

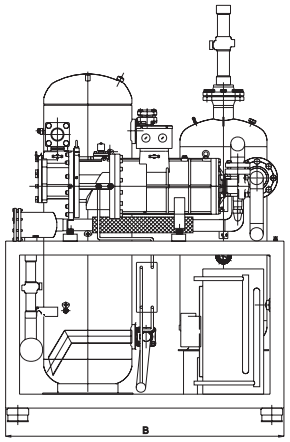
Other equipment
— suction header closed with cap
— HP/LP switch on each compressor
— HP and LP gauges

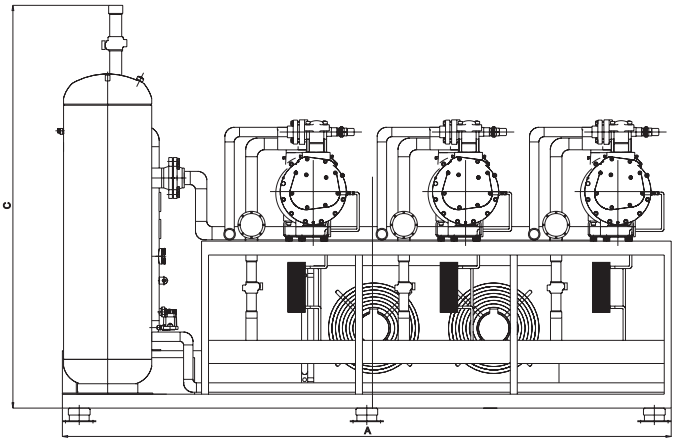
OPTIONAL EQUIPMENT

— shut-off valve on suction header
— filter drier with a shut-off valve on liquid line
— discharge pressure regulation valve

NOTE

This catalogue contains only examples of compressor packs. Each offered unit is designed and optimised for a particular application. The optimisation comprises the selection of compressor type, number of compressors, structure and overall dimensions. Please consult our engineers.





Model	Te					
	-10		-5		0	
	Pe	Po	Pe	Po	Pe	Po
R TSH 40-120x2	66.4	110200	69,2	136400	71,4	167200
R TSH 50 150x2	77.4	141000	80,8	174400	84,0	213400
R TSH 60 186x2	92.2	173400	96,2	214600	100,0	262600
R TSH 70 210x2	102.2	197200	106,4	243800	110,0	298400
R TSH 80 240x2	125.2	225600	130,8	278800	136,0	341200
R TSH 90 270x2	138.6	255600	144,4	316000	149,8	387000
R TSH 100 300x2	152.6	282400	159,2	349400	165,0	427800
R TSH 120 360x2	176.0	341800	183,8	423000	190,4	517800
R TSH 40-120x3	99.6	165300	103,8	204600	107,1	250800
R TSH 50 150x3	116.1	211500	121,2	261600	126,0	320100
R TSH 60 186x3	138.3	260100	144,3	321900	150,0	393900
R TSH 70 210x3	153.3	295800	159,6	365700	165,0	447600
R TSH 80 240x3	187.8	338400	196,2	418200	204,0	511800
R TSH 90 270x3	207.9	383400	216,6	474000	224,7	580500
R TSH 100 300x3	228.9	423600	238,8	524100	247,5	641700
R TSH 120 360x3	264.0	512700	275,7	634500	285,6	776700

Te - Evaporating temperature (^{O}C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Operating conditions:
Condensing temperature: +45^{O}C
Suction superheating: 10 K

Model	Receiver		Connections		Dimensions		
	Capacity	Connections	Suction	Discharge	A	B	C
	dm^3	mm	mm	mm	mm	mm	mm
R TSH 40-120x2	160	42	76	42	2500	1500	1600
R TSH 50 150x2	160	42	89	54			
R TSH 60 186x2	160	54	89	54			
R TSH 70 210x2	220	54	108	64			
R TSH 80 240x2	220	54	108	64			
R TSH 90 270x2	220	64	108	76			
R TSH 100 300x2	320	64	2 x 89	76	2800	1600	1800
R TSH 120 360x2	320	76	2 x 108	76			
R TSH 40-120x3	160	54	89	54	3200	1600	1600
R TSH 50 150x3	220	54	108	64			
R TSH 60 186x3	220	64	2 x 89	64			
R TSH 70 210x3	320	64	2 x 108	76			
R TSH 80 240x3	320	76	2 x 108	76			
R TSH 90 270x3	400	76	2 x 108	76			
R TSH 100 300x3	400	76	3 x 108	89	3500	1800	1800
R TSH 120 360x3	400	89	3 x 108	89			

MEDIUM TEMPERATURE RANGE R404A/R507A

Model	Te					
	-10		-5		0	
	Pe	Po	Pe	Po	Pe	Po
SW1H4000x2	61.2	116000	62,4	143400	63,0	175200
SW1H5000x2	77.8	147600	79,4	182400	80,2	222600
SW1H6000x2	90.8	172200	92,6	212800	93,4	259800
SW1H7500x2	106.4	201600	108,6	249200	109,6	304200
SW1H9000x2	123.0	233200	125,6	288200	126,6	351800
SW1H10500x2	148.6	281400	151,4	347800	152,8	424400
SW1H11500x2	165.2	312800	168,4	386600	170,0	472000
SW1H12500x2	177.2	335400	180,6	414600	182,2	506200
SW1H4000x3	91.8	174000	93,6	215100	94,5	262800
SW1H5000x3	116.7	221400	119,1	273600	120,3	333900
SW1H6000x3	136.2	258300	138,9	319200	140,1	389700
SW1H7500x3	159.6	302400	162,9	373800	164,4	456300
SW1H9000x3	184.5	349800	188,4	432300	189,9	527700
SW1H10500x3	222.9	422100	227,1	521700	229,2	636600
SW1H11500x3	247.8	469200	252,6	579900	255,0	708000
SW1H12500x3	265.8	503100	270,9	621900	273,3	759300

Te - Evaporating temperature (^{O}C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Operating conditions:
Condensing temperature: +45^{O}C
Suction superheating: 10 K

Model	Receiver		Connections		Dimensions		
	Capacity	Connections	Suction	Discharge	A	B	C
	dm^3	mm	mm	mm	mm	mm	mm
SW1H4000x2	160	42	76	42	2500	1500	1600
SW1H5000x2	160	42	89	54			
SW1H6000x2	160	54	89	54			
SW1H7500x2	220	54	108	64			
SW1H9000x2	220	54	108	64			
SW1H10500x2	220	64	108	76			
SW1H11500x2	320	64	2 x 89	76	2800	1600	1800
SW1H12500x2	320	76	2 x 108	76			
SW1H4000x3	160	54	89	54	3200	1600	1600
SW1H5000x3	220	54	108	64			
SW1H6000x3	220	64	2 x 89	64			
SW1H7500x3	320	64	2 x 108	76			
SW1H9000x3	320	76	2 x 108	76			
SW1H10500x3	400	76	2 x 108	76			
SW1H11500x3	400	76	3 x 108	89	3500	1800	1800
SW1H12500x3	400	89	3 x 108	89			

Model	Te					
	-40		-35		-30	
	Pe	Po	Pe	Po	Pe	Po
R TSL 30 120x2	52.0	42600	53,7	55700	55,8	70500
R TSL 40 150x2	61.6	53400	66,2	70500	70,8	89900
R TSL 50 186x2	81.5	68800	87,0	89500	93,1	113000
R TSL 60 210x2	85.5	73700	91,7	96900	97,9	123400
R TSL 70 240x2	97.9	90000	105,2	117000	112,7	147700
R TSL 80 270x2	110.2	101200	118,6	131700	127,1	166300
R TSL 90 300x2	122.0	112000	131,0	145600	140,3	183900
R TSL 100 360x2	147.6	136000	158,8	176800	170,2	223300
R TSL 30 120x3	78.1	63900	80,6	83500	83,7	105700
R TSL 40 150x3	92.4	80100	99,3	105700	106,2	134900
R TSL 50 186x3	122.2	103200	130,5	134200	139,6	169400
R TSL 60 210x3	128.2	110500	137,5	145400	146,8	185100
R TSL 70 240x3	146.9	135000	157,8	175500	169,0	221600
R TSL 80 270x3	165.3	151800	177,9	197500	190,7	249500
R TSL 90 300x3	183.0	168000	196,5	218400	210,5	275800
R TSL 100 360x3	221.4	204000	238,2	265200	255,3	335000

Te - Evaporating temperature (^{O}C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Model	Receiver		Connections		Dimensions		
	Capacity	Connections	Suction	Discharge	A	B	C
	dm^3	mm	mm	mm	mm	mm	mm
R TSL 30 120x2	90	28	54	35	2500	1500	1600
R TSL 40 150x2	160	35	54	35			
R TSL 50 186x2	220	35	64	42			
R TSL 60 210x2	220	35	64	42			
R TSL 70 240x2	220	42	76	54			
R TSL 80 270x2	220	42	76	54			
R TSL 90 300x2	220	42	76	54	2800	1600	1800
R TSL 100 360x2	320	54	89	64			
R TSL 30 120x3	160	35	64	42	3200	1600	1600
R TSL 40 150x3	220	42	64	42			
R TSL 50 186x3	220	42	76	54			
R TSL 60 210x3	220	42	76	54			
R TSL 70 240x3	400	54	89	64			
R TSL 80 270x3	400	54	89	64			
R TSL 90 300x3	400	54	108	64	3500	1800	1800
R TSL 100 360x3	400	64	108	76			

MEDIUM TEMPERATURE RANGE R404A/R507A

Model	Te					
	-40		-35		-30	
	Pe	Po	Pe	Po	Pe	Po
SW1L3000x2	57.2	42200	59,6	55200	61,8	70400
SW1L4000x2	70.2	51800	73,2	67800	75,8	86600
SW1L5000x2	80.2	59000	83,6	77200	86,6	98800
SW1L6500x2	90.8	66000	95,2	87000	99,6	112000
SW1L8000x2	103.8	75200	108,8	99000	113,6	127400
SW1L9500x2	127.4	93000	133,4	122200	139,0	156800
SW1L10500x2	140.4	102800	146,8	134200	152,8	172400
SW1L11500x2	149.8	108800	156,6	143000	162,6	183600
SW1L3000x3	85.8	63300	89,4	82800	92,7	105600
SW1L4000x3	105.3	77700	109,8	101700	113,7	129900
SW1L5000x3	120.3	88500	125,4	115800	129,9	148200
SW1L6500x3	136.2	99000	142,8	130500	149,4	168000
SW1L8000x3	155.7	112800	163,2	148500	170,4	191100
SW1L9500x3	191.1	139500	200,1	183300	208,5	235200
SW1L10500x3	210.6	154200	220,2	201300	229,2	258600
SW1L11500x3	224.7	163200	234,9	214500	243,9	275400

Te - Evaporating temperature (°C)
Po - Cooling capacity (W)
Pe - Power imput (kW)

Model	Receiver		Connections		Dimensions		
	Capacity	Connections	Suction	Discharge	A	B	C
	dm^3	mm	mm	mm	mm	mm	mm
SW1L3000x2	90	28	54	35	2500	1500	1600
SW1L4000x2	160	35	54	35			
SW1L5000x2	220	35	64	42			
SW1L6500x2	220	35	64	42			
SW1L8000x2	220	42	76	54			
SW1L9500x2	220	42	76	54			
SW1L10500x2	220	42	76	54	2800	1600	1800
SW1L11500x2	320	54	89	64			
SW1L3000x3	160	35	64	42	3200	1600	1600
SW1L4000x3	220	42	64	42			
SW1L5000x3	220	42	76	54			
SW1L6500x3	220	42	76	54			
SW1L8000x3	400	54	89	64			
SW1L9500x3	400	54	89	64			
SW1L10500x3	400	54	108	64	3500	1800	1800
SW1L11500x3	400	64	108	76			

COMPRESSORS DATA

Compressor	Displacement	Oil Charge	Oil type	Net Weight	Motor Protection	Amps	
						Max. Oper. Current	Locked Rotor Current
	m^3/h	dm^3		kg		A	A
D3DA-75X-AWM	32.10	3.40	ICI Emkarate RL32-3MAF or Mobil EAL ARCTIC 22CC	163	INT	18.0	106.0
D3DC-100X-AWM	37.90	3.40		175	INT	21.3	121.0
D3DS-150X-AWM	49.90	3.40		178	INT	28.8	129.0
D4DA-200X-AWM	56.30	3.60		212	INT	32.0	160.0
D4DH-250X-AWM	70.80	4.00		225	INT	41.5	192.0
D4DJ-300X-AWM	84.70	4.00		230	INT	52.5	218.0
D6DH350X-AWM	106.00	4.30		262	INT	63.5	284.0
D6DJ-400X-AWM	127.00	7.40		277	INT	83.0	347.0
D8DH-500X-BWM	151.00	7.70		351	INT	88.0	444.0
D8DJ-600X-BWM	181.00	7.70		352	INT	114.0	544.0
D3DA-50X-AWM	32.20	3.70		157	INT	12.0	55.0
D3DC- 75X-AWM	38.20	3.40		170	INT	13.8	70.0
D3DS-100X-AWM	49.90	3.70		173	INT	19.5	121.0
D4DF-100X-AWM	56.00	4.50		213	INT	19.3	104.0
D4DL-150X-AWM	70.90	3.60		221	INT	25.7	140.0
D4DT-220X-AWM	84.70	4.00		231	INT	30.3	160.0
D6DL-270X-AWM	106.00	4.30		258	INT	37.1	192.0
D6DT-320X-AWM	127.00	7.40		277	INT	47.0	218.0
D8DL-370X-BWM	151.00	7.70		344	INT	58.5	309.0
D8DT-450X-BWM	181.00	7.70		356	INT	69.0	390.0
D3SC-75X-AWM	37.96	3.70		174	INT	19.8	70.0
D3SS-100X-AWM	49.90	3.70		177	INT	26.0	109.0
D4SA-200X-AWM	56.00	3.60		199	INT	30.5	160.0
D4SF-100X-AWM	56.00	4.50		194	INT	26.6	104.0
D4SH-250X-AWM	70.80	4.00		210	INT	40.1	192.0
D4SL-150X-AWM	70.80	3.60		202	INT	35.1	140.0
D6SA-300X-AWM	84.00	4.30		230	INT	47.1	218.0
D6SF-200X-AWM	84.00	4.30		228	INT	38.4	160.0
D4SJ-300X-AWM	84.70	4.00		226	INT	47.7	218.0
D4ST-200X-AWM	84.70	4.00		214	INT	39.6	160.0
D6SH-350X-AWM	106.00	4.30		240	INT	62.4	284.0
D6SL-250X-AWM	106.00	4.3		232	INT	51.6	192.0
D6SJ-400X-AWM	127.00	7.40		268	INT	71.8	347.0
D6ST-300X-AWM	127.00	7.40		268	INT	64.9	284.0
D6ST-320X-AWM	127.00	7.40		268	INT	64.9	284.0
D8SH-370X-BWM	151.00	7.70		335	INT	70.9	309.0
D8SH-500X-BWM	181.00	7.70		347	INT	91.6	444.0
D8SJ-450X-BWM	181.00	7.70		366	INT	90.8	390.0
D8SJ-600X-BWM	181.00	7.70		367	INT	107.0	544.0

Motor protection:
INT - thermstors emboded in the motor winndings and connected to an electronic control module
DT - internal discharge temperature protection

COMPRESSORS DATA

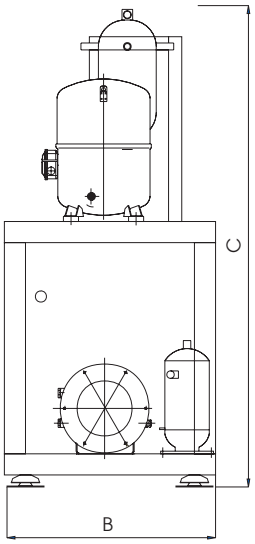
Compressor	Displacement	Oil Charge	Oil type	Net Weight	Motor Protection	Amps	
						Max. Oper. Current	Locked Rotor Current
	m³/h	dm³		kg		A	A
Q7 33Y - DOL	32.66	1.80	ICI Emkarate RL32H	82	INT	17.5	91.4
S10 39Y - PWS	38.25	3.30		134	INT	21.0	56.8
S15 51Y - PWS	50.43	3.30		140	INT	31.0	77.8
S20 56Y - PWS	56.00	3.30		146	INT	37.0	96.7
V25 71Y - PWS	70.77	4.50		198	INT+DT	45.0	113.0
V30 84Y - PWS	83.81	4.50		201	INT+DT	53.0	122.0
V32 93 - PWS	93.05	4.50		206	INT+DT	57.00	136.00
V35 103 - PWS	102.90	4.50		207	INT+DT	61.00	148.00
Z40 126 - PWS	125.72	7.50		262	INT+DT	75.00	173.00
W40 142 - PWS	141.50	8.00		320	INT+DT	90.00	198.00
Z50 154 - PWS	154.38	7.50		266	INT+DT	92.50	203.00
W50 168 - PWS	167.60	8.00		331	INT+DT	101.00	208.00
W60 187 - PWS	186.10	8.00		341	INT+DT	114.00	241.00
W70 206 - PWS	205.80	8.00		354	INT+DT	125.00	313.00
W75 228 - PWS	227.77	8.00		354	INT+DT	136.00	340.00
W80 240 - PWS	239.02	8.00		354	INT+DT	136.00	340.00
F4 24Y - DOL	23.60	2.10		77	INT	10.9	49.5
Q5 28Y - DOL	27.88	1.80		82	INT	12.2	56.9
Q5 33Y - DOL	32.66	1.80		82	INT	12.2	56.9
S7 39Y - PWS	38.25	3.30		131	INT	17.0	49.2
S15 56Y - PWS	56.00	3.30		144	INT	31.0	77.8
V15 71Y - PWS	70.77	4.50		184	INT+DT	31.0	77.8
V20 84Y - PWS	83.81	4.50		194	INT+DT	37.0	96.7
V25 93Y - PWS	93.05	4.50		204	INT+DT	45.0	113.0
V25 103Y - PWS	102.90	4.50		204	INT+DT	45.0	113.0
Z30 126Y - PWS	125.72	7.50		251	INT+DT	53.0	122.0
Z40 154 - PWS	154.38	7.50		262	INT+DT	75.0	173.0
W40 168 - PWS	167.6	8.00		325	INT+DT	90.0	198.0
W50 187 - PWS	186.1	8.00		337	INT+DT	101.0	208.0
W60 206 - PWS	205.8	8.00		346	INT+DT	114.0	241.0
W70 228 - PWS	227.77	8.00		354	INT+DT	125.0	313.0
W75 240 - PWS	239.02	8.00		354	INT+DT	136.0	340.0
MTZ-80-4VE	23.63	1.80	Maneurop 160PZ	42	A	18.0	80.0
MTZ-100-4VE	29.80	3.90		66.5	A	22.0	78.5
MTZ-125-4VE	37.49	3.90		68	A	27.0	105.0
MTZ-160-4VE	47.25	3.90		69	A	36.0	130.0
ZB-45-KCE-TFD	17.20	1,9	ICI Emkarate RL32-3MAF or Mobil EAL ARCTIC 22CC	39,5	A+DT	13,1	74,0
ZB-58-KCE-TFD	22.10	2,50		60	A+DT	15,4	95,0
ZB-76-KCE-TFD	28.80	3,25		65	A+DT	20,4	118,0
ZB-95-KCE-TFD	36.40	3,25		65	A+DT	28,2	140,0
ZB-114-MCE-TFD	43.30	3,25		66	A+DT	33,3	174,0
ZF-18-K4E-TFD	17.20	1.70		44	A+TD	13.8	74.0
ZF-24-K4E-TWD	21.80	4.00		100	INT+DT	16.1	99.0
ZF-33-K4E-TWD	28.90	4.00		100	INT+DT	22.3	134.0
ZF-40-K4E-TWD	35.60	4.10		110	INT+DT	25.1	159.0
ZF-48-K4E-TWD	42.10	4.10		119	INT+DT	30.6	187.0

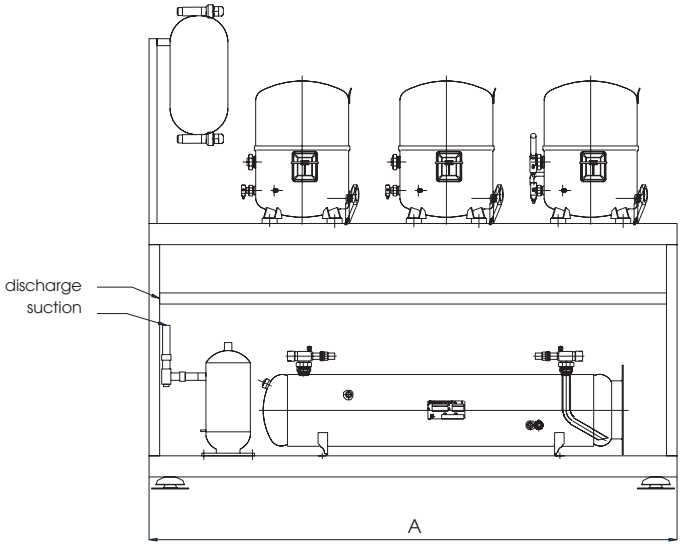
Compressor	Displacement	Oil Charge	Oil type	Net Weight	Motor Protection	Amps	
						Max. Oper. Current	Locked Rotor Current
	m^3/h	dm^3		kg		A	A
SZ-084-4VM	19.92	3.25	Maneurop 160SZ	72	A	17.0	86.0
SZ-090-4VM	20.97	3.25		72	A	17.0	98.0
SZ-115-4VM	26.97	3.80		80	T	25.0	120.0
SZ-161-4VM	37.69	3.60		86	A	35.0	175.0
SZ-185-4VM	43.48	6.60		103	T	35.0	175.0
ZR-81-KCE-TFD	19.20	1,77	ICI Emkarate RL32-3MAF or Mobil EAL ARCTIC 22CC	39	A+DT	15,0	101,0
ZR-94-KCE-TFD	22.12	2,50		57	A+DT	15,9	95,0
ZR-125-KCE-TFD	29.08	3,20		61	A+DT	19,6	118,0
ZR-160-KCE-TFD	36.38	3,25		64,9	A+DT	27,0	140,0
ZR-190-KCE-TFD	43.25	3,25		66	A+DT	39,0	174,0
R TSL 30 120	120.00		ICI Emkarate RL170H	193	INT	51.0	152.0
R TSL 40 150	150.00			249	INT	68.0	194.0
R TSL 50 186	186.00			269	INT	89.0	212.0
R TSL 60 210	210.00			320	INT	108.0	243.0
R TSL 70 240	240.00			348	INT	126.0	283.0
R TSL 80 270	270.00			350	INT	148.0	333.0
R TSL 90 300	300.00			375	INT	170.0	398.0
R TSL 100 360	360.00			379	INT	185.0	499.0
R TSH 40-120	120.00		ICI Emkarate RL170H	198	INT	68.0	194.0
R TSH 50 150	150.00			253	INT	85.0	218.0
R TSH 60 186	186.00			275	INT	108.0	243.0
R TSH 70 210	210.00			328	INT	126.0	283.0
R TSH 80 240	240.00			352	INT	148.0	333.0
R TSH 90 270	270.00			358	INT	170.0	398.0
R TSH 100 300	300.00			383	INT	185.0	499.0
R TSH 120 360	360.00			388	INT	216.0	634.0
SW1H4000	118.00		Fuchs Triton SE170 or Castrol SW220HT	245	INT	65.0	277.0
SW1H5000	150.00			255	INT	82.0	303.0
SW1H6000	175.00			265	INT	96.0	373.0
SW1H7500	205.00			410	INT	124.0	280.0
SW1H9000	237.00			420	INT	140.0	351.0
SW1H10500	286.00			535	INT	168.0	652.0
SW1H11500	318.00			540	INT	182.0	318.0
SW1H12500	341.00			545	INT	196.0	318.0
SW1L3000	118.00		Fuchs Triton SE170 or Castrol SW220HT	245	INT	55.0	225.0
SW1L4000	150.00			255	INT	65.0	277.0
SW1L5000	175.00			265	INT	75.0	303.0
SW1L6500	205.00			410	INT	87.0	262.0
SW1L8000	237.00			420	INT	106.0	280.0
SW1L9500	286.00			520	INT	130.0	405.0
SW1L10500	318.00			525	INT	142.0	318.0
SW1L11500	341.00			530	INT	154.0	318.0

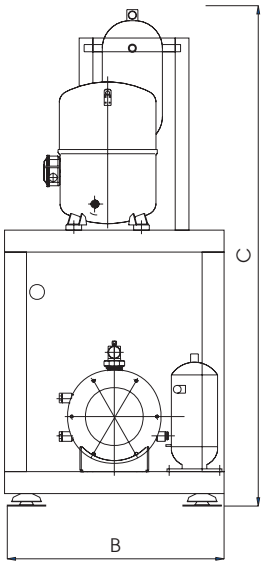
Motor protection:
A - internal overload protection. No need to connect to control circuit
T - motor safety thermostat which must be wired in a lockout safety circuit
INT - thermstors emboded in the motor winndings and connected to an electronic control module
DT - internal discharge temperature protection
TD - outer discharge temperature thermostat

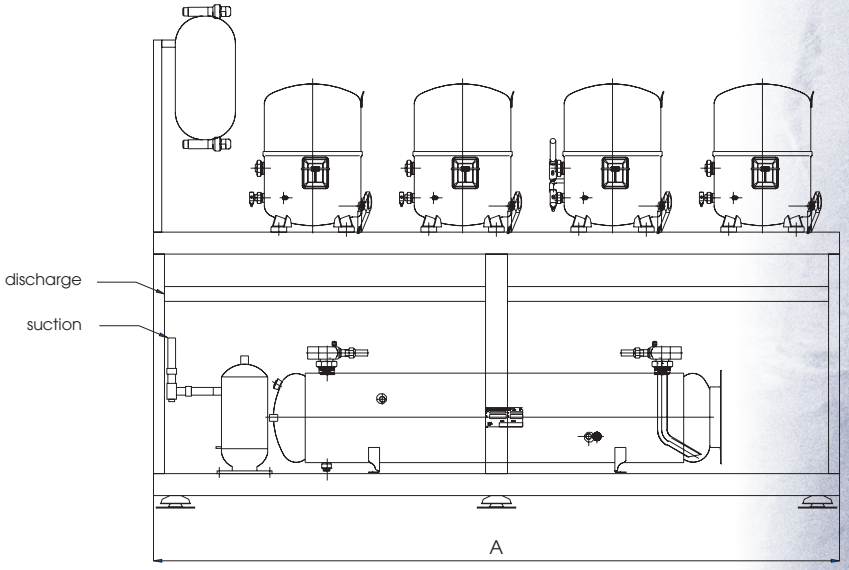
FRAME DIMENSIONS

Piston hermetic and scroll compressor pack systems

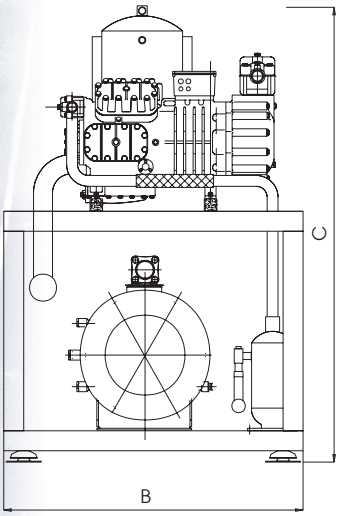


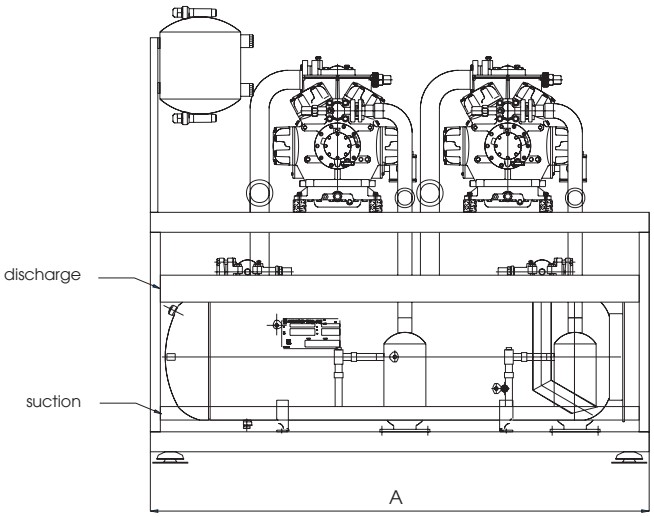


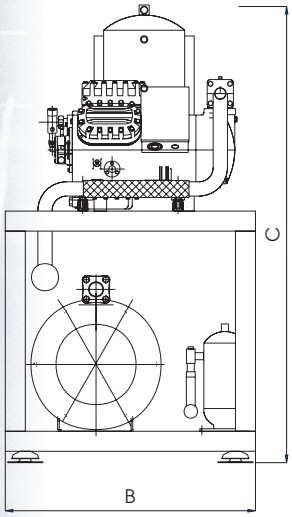


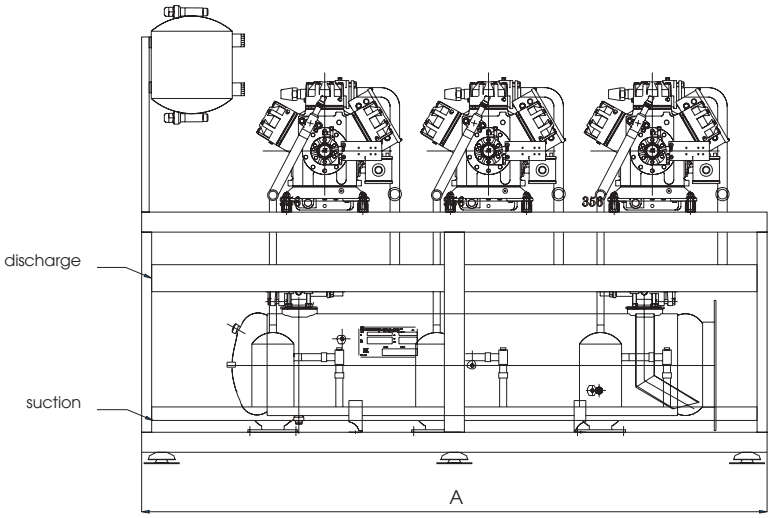


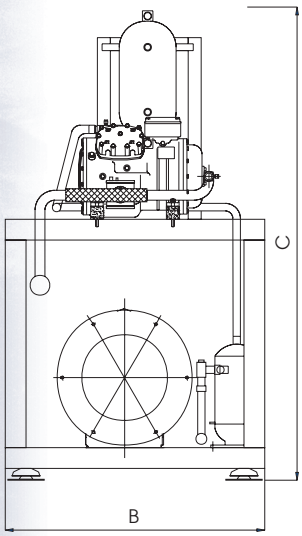
Piston semi-hermetic compressor pack systems

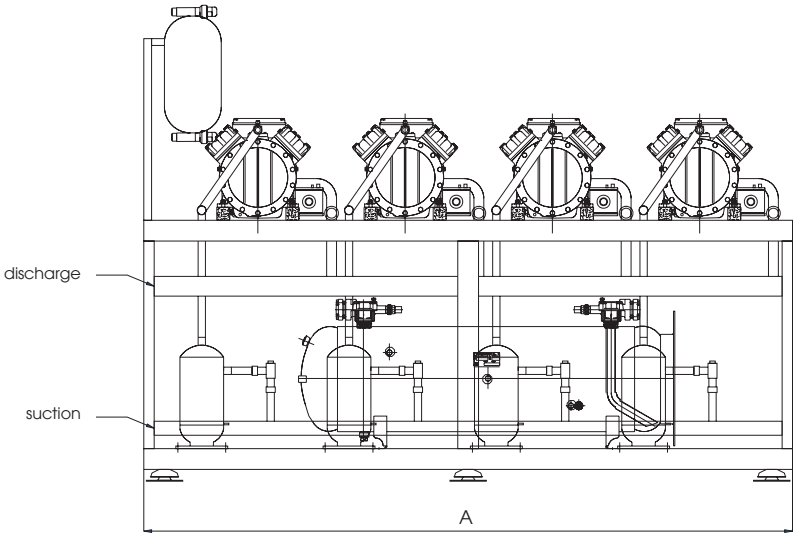












FRAME DIMENSIONS

Screw compressor pack systems