

OSTROV
refrigeration

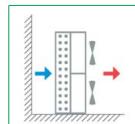
Condensing units OA14, OA15



technical catalogue

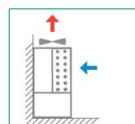
OA14 and OA15 series:
 • Modern design;
 • Outdoor installations;

- Residential areas;
- Comply with the Ecodesign directive.



		OA141	
		Q₀	Capacity range
RS485	Low noise	6P	Capacity control
		6P	0/100 %
			21 models
		MT	1.1 ... 17.3 kW
		LT	0.7 ... 6.5 kW
		Capacity range	

		OA143	
		Q₀	Capacity range
RS485	Low noise	EC	Capacity control
		EC	10...100 %
			Digital scroll
		Q ₀	10 models
		MT	5.6 ... 47.5 kW
		Capacity range	



		OA151	
		Q₀	Capacity range
RS485	Low noise	6P	Capacity control
		6P	0/100 %
			22 models
		MT	3.7 ... 36.8 kW
		LT	1.1 ... 20.2 kW
		Capacity range	



		OA152	
		Q₀	Capacity range
RS485	Standard noise	4P	Capacity control
		4P	0/100 %
			23 models
		MT	4.2 ... 50.8 kW
		LT	1.1 ... 24.8 kW
		Capacity range	

		OA153	
		Q₀	Capacity range
RS485	Low noise	EC	Capacity control
		EC	30...100 %
			Frequency inverter
		Q ₀	9 models
		MT	8.2 ... 43.0 kW
		Capacity range	

Quality assurance



EN ISO 9001:2009



EU directives



Customs Union directives

OA153	M	S	E	532	XXXXX	HFC
Model range	Temperature application	Climatic execution	Compressor type	Capacity encoding	Options	Refrigerant
OA141	M — medium temperature			Q ₀ (kW)*10		
OA143	L — low temperature					
OA151				H — hermetic reciprocating		
OA152				E — semi-hermetic reciprocating		
OA153				S — scroll		
		N — northern climate				
		S — temperate climate				
		T — tropical climate				

Advantages

Space saving

- OA14 series:
 - horizontal air flow;
 - slim housing.
- OA15 series:
 - vertical air flow;
 - installation close to the wall or another unit.

Low noise level

- Separate compressor compartment;
- Additional sound insulation of the compressor compartment;
- Acoustic hood of the compressor;
- Low speed condenser fans with profiled blades.

High energy efficiency

- OA143 and OA153 model ranges:
 - high energy efficiency due to stepless capacity control;
 - possibility of connecting more than one evaporator;
 - low operating costs and long service life due to EC fans;
 - one or two compressors.
- Reliable and efficient compressors;
- Stepless control of the condenser fans.

Easy mounting, commissioning and service

- Externally located Rotalock valves for connecting to suction and liquid line and can be turned in any direction;
- Access to all components due to removable panels;
- External power supply switch;
- Completely factory-assembled, tested and ready for installation and commissioning;
- Data communication module Modbus and terminals for RS-485 network cable connection for OA143 and OA153 model ranges.

Protection against unfavorable climatic conditions, operation at high and low ambient temperatures

- Ergonomic, durable housing made of powder-coated galvanized steel;
- Optimized geometry of heat exchanger coils;
- Winter package (Optional).

Technical data		OA141-LS-H12	OA141-LS-H24	OA141-LS-H41	OA141-LS-S42	OA141-LS-S49	OA141-LS-S60	OA141-LS-S77	OA141-LS-S99
Cooling capacity ⁽¹⁾ R404A	kW	0.74	1.35	2.37	2.63	3.13	3.77	4.83	6.40
Power consumption ⁽²⁾ R404A	kW	0.92	1.53	2.60	2.50	2.94	3.35	4.26	5.84
SEPR ⁽³⁾		-	-	1.50	1.66	1.67	1.74	1.75	1.83
COP ⁽³⁾		0.99	1.09	1.12	1.17	1.19	1.26	1.26	1.22
Capacity control					0/100%				
Compressor									
Compressor type		hermetic reciprocating				scroll			
Model		CAJ2464Z	TFH2511Z	TAG2522Z	LLZ013T4	LLZ015T4	LLZ018T4	LLZ024T4	LLZ034T4
Power supply		~1-230V-50Hz				~3-400V-50Hz			
Maximum operating current	A	10.0	7.2	13.4	12.0	15.0	15.0	21.0	26.0
Starting current	A	40.0	28.0	56.0	62.0	88.5	90.0	95.0	150.0
Condenser									
Fans	N x mm	1 x 350	1 x 400	1 x 450	1 x 450	1 x 450	1 x 500	1 x 560	1 x 560
Power consumption	kW	0.08	0.12	0.19	0.19	0.19	0.27	0.41	0.41
Maximum operating current	A	0.35	0.53	0.86	0.86	0.86	1.18	1.80	1.80
Air flow	m³/h	1760	2390	3650	3650	3650	4480	6110	6110
Refrigerant receiver	l	2.3	3.4	6.0	6.0	6.0	6.0	7.8	7.8
Sound pressure level ⁽⁴⁾	dB(A)	26	38	38	39	41	44	46	46
Suction line	inch	1/2"	5/8"	7/8"	7/8"	7/8"	7/8"	1 1/8"	1 1/8"
Liquid line	inch	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"	5/8"	5/8"
Net weight ⁽⁵⁾	kg	82	112	144	138	138	160	187	193
Housing type		14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8
		14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8

Housing	A, length	B, width	C, height
	mm	mm	mm
14.1	920	425	605
14.2	1050	425	700
14.3	1180	505	790
14.4	1315	505	865
14.5	1470	525	980
14.6	1655	555	1080



(1) Data are listed in accordance with EN 13215 under the following conditions

Temperature application	L	M
Evaporating temperature, °C	-35	-10
Ambient temperature, °C	+32	
Superheat, K	10	
Subcooling, K	3	

(2) Power consumption including fan power consumption

(3) Rated conditions: T evaporating -35 °C/-10 °C T ambient +32 °C Return Gas Temp 20 °C Subcooling 3 K (Directive 2009/125/EC)

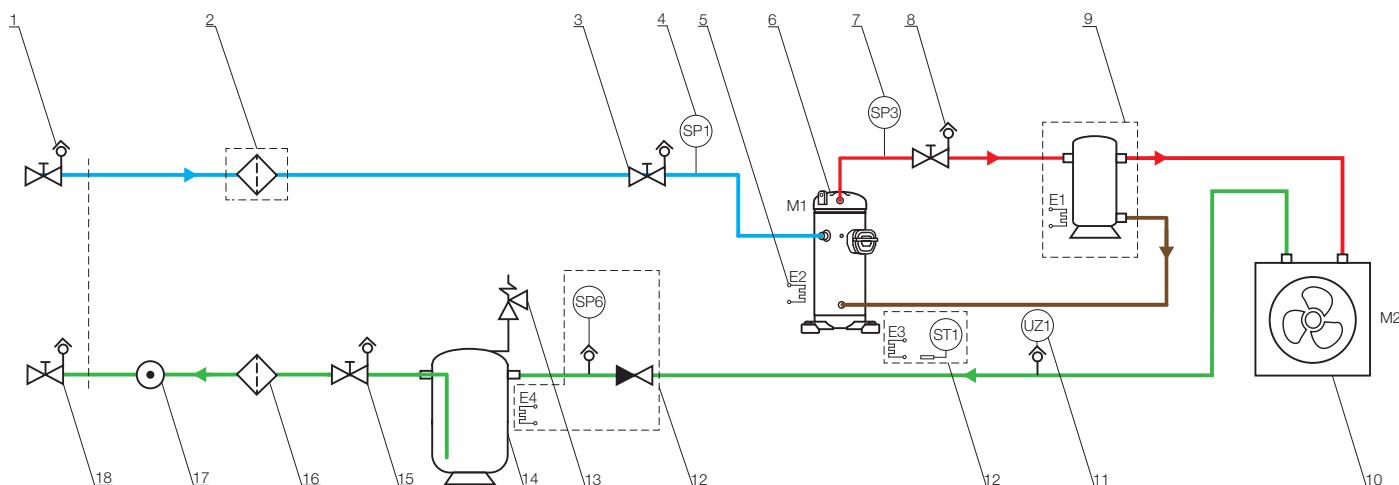
(4) Sound pressure is measured at 10m distance, in free field conditions on the surface of a parallelepiped according to EN 13487

(5) Weights are indicated for models with all options

medium temperature

0A141-MS-H14	0A141-MS-H20	0A141-MS-H26	0A141-MS-H31	0A141-MS-H39	0A141-MS-S43	0A141-MS-S54	0A141-MS-S73	0A141-MS-S85	0A141-MS-S106	0A141-MS-S141	0A141-MS-S192	0A141-MS-S208
1.12	1.54	2.08	2.53	3.12	3.5	4.44	5.92	6.97	8.64	11.48	15.47	17.26
0.66	0.89	1.17	1.67	1.55	1.71	2.22	2.94	3.52	3.93	5.54	7.22	8.37
-	-	-	-	-	-	-	3.55	3.45	3.75	3.72	3.6	3.49
1.85	1.89	1.94	1.66	1.99	2.14	2.09	2.10	2.06	2.29	2.16	2.23	2.15
0/100%												
hermetic reciprocating												
AE4470Z	CAJ9510Z	CAJ4517Z	CAJ4519Z	MT2022-4	MLZ015T4	MLZ019T4	MLZ026T4	MLZ030T4	MLZ038T4	MLZ048T4	MLZ066T4	MLZ076T4
~1-230V-50Hz							~3-400V-50Hz					
5.3	8.0	10.6	15.2	6.0	7.0	9.5	10.0	13.0	15.0	16.0	24.0	25.0
19.3	30.0	32.0	45.0	20.0	30.0	45.0	45.0	60.0	70.0	87.0	110.0	140.0
1 x 350												
0.08	0.08	0.08	0.08	0.12	0.12	0.12	0.19	0.19	0.27	0.41	0.60	0.60
0.35	0.35	0.35	0.35	0.53	0.53	0.53	0.86	0.86	1.18	1.80	1.20	1.20
1760	1760	1760	1760	2390	2390	2390	3650	3650	4480	6110	8590	8590
2.3	2.3	2.3	2.3	3.4	3.4	3.4	6.0	6.0	6.0	7.8	10.0	10.0
27	27	28	30	35	30	30	31	32	34	36	37	37
1/2"	1/2"	1/2"	1/2"	5/8"	5/8"	5/8"	7/8"	7/8"	7/8"	1 1/8"	1 1/8"	1 1/8"
3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"	5/8"	5/8"	5/8"
70	81	81	81	102	110	110	125	132	153	177	217	217
14.1	14.1	14.1	14.1	14.2	14.2	14.2	14.3	14.3	14.4	14.5	14.6	14.6

Piping and instrumentation diagram



- 1 Suction line shut-off valve
- 2 Suction line filter [Option]
- 3 Compressor inlet shut-off valve
- 4 Low pressure switch (SP1)
- 5 Crankcase heater (E2)
- 6 Scroll compressor (M1)
- 7 High pressure switch (SP3)
- 8 Compressor outlet shut-off valve
- 9 Oil separator with heater (E1) [Option]
- 10 Air cooled condenser (M2)
- 11 Condenser fan speed controller (UZ1)
- 12 Winter package: [Option]
 - additional crankcase heater (E3), thermostat (ST1)
 - receiver heater (E4), heater control pressure switch (SP6), check valve
- 13 Safety valve
- 14 Refrigerant receiver
- 15 Receiver outlet shut-off valve
- 16 Filter drier
- 17 Sight glass with moisture indicator
- 18 Liquid line shut-off valve

0A143

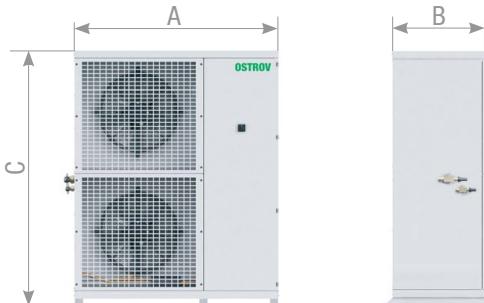
medium temperature

Technical data		0A143-MS-S70	0A143-MS-S92	0A143-MS-S111	0A143-MS-S130	0A143-MS-S172	0A143-MS-S220	0A143-MS-S259	0A143-MS-S315	0A143-MS-S442	0A143-MS-S582					
Cooling capacity ⁽¹⁾ R404A	kW	5.61	7.44	9.04	10.55	13.93	18.36	21.10	25.93	36.81	47.47					
Power consumption ⁽²⁾ R404A	kW	2.45	3.22	4.06	4.85	6.10	9.04	9.70	12.64	18.04	28.58					
SEPR ⁽³⁾		4.03	4.14	3.81	3.73	3.91	3.75	3.73	3.63	3.76	3.32					
COP ⁽³⁾		2.39	2.42	2.33	2.28	2.39	2.13	2.28	2.16	2.14	1.74					
Capacity control		10...100% Digital Scroll™					5...100% Digital Scroll™									
Compressor																
Compressor type		scroll														
Model		ZBD21KCE	ZBD29KCE	ZBD38KCE	ZBD45KCE	ZBD57KCE	ZBD76K5E	ZBD45KCE-ZB45KCE	ZBD57KCE-ZB57KCE	ZBD76K5E-ZB76K5E	ZBD114K5E+ZB114K5E					
Power supply		~3-400V-50Hz														
Maximum operating current	A	6.7	7.9	11.3	12.3	15.9	20.4	25.4	31.8	44.4	66.8					
Starting current	A	40.0	48.0	65.5	74.0	102.0	118.0	87.1	117.9	138.4	207.5					
Condenser																
Fans	N x mm	1 x 500	1 x 500	1 x 500	1 x 500	1 x 630	1 x 630	2 x 500	2 x 500	2 x 630	2 x 630					
Power consumption	kW	0.5	0.5	0.5	0.5	0.7	0.7	1	1	1.4	1.4					
Maximum operating current	A	2.2	2.2	2.2	2.2	1.1	1.1	4.4	4.4	2.2	2.2					
Air flow	m³/h	6380	6380	6380	6380	9790	9790	12700	12700	19600	19600					
Refrigerant receiver	l	6.0	6.0	6.0	6.0	10.0	10.0	18.0	18.0	24.5	24.5					
Sound pressure level ⁽⁴⁾	dB(A)	40	40	42	40	45	45	43	46	47	49					
Suction line	inch	7/8"	7/8"	7/8"	7/8"	1 1/8"	1 1/8"	1 3/8"	1 3/8"	1 5/8"	1 5/8"					
Liquid line	inch	1/2"	1/2"	1/2"	1/2"	5/8"	5/8"	7/8"	7/8"	7/8"	7/8"					
Net weight ⁽⁵⁾	kg	144	144	154	156	221	243	339	343	505	520					
Housing type		14.4	14.4	14.4	14.4	14.6	14.6	14.7	14.7	14.9	14.9					

Housing	A, length	B, width	C, height
	mm	mm	mm
14.4	1315	505	865
14.6	1655	555	1080



Housing	A, length	B, width	C, height
	mm	mm	mm
14.7	1310	600	1645
14.9	1650	700	2055



(1) Data are listed in accordance with EN 13215 under the following conditions

Temperature application	M
Evaporating temperature, °C	-10
Ambient temperature, °C	+32
Superheat, K	10
Subcooling, K	3

(2) Power consumption including fan power consumption

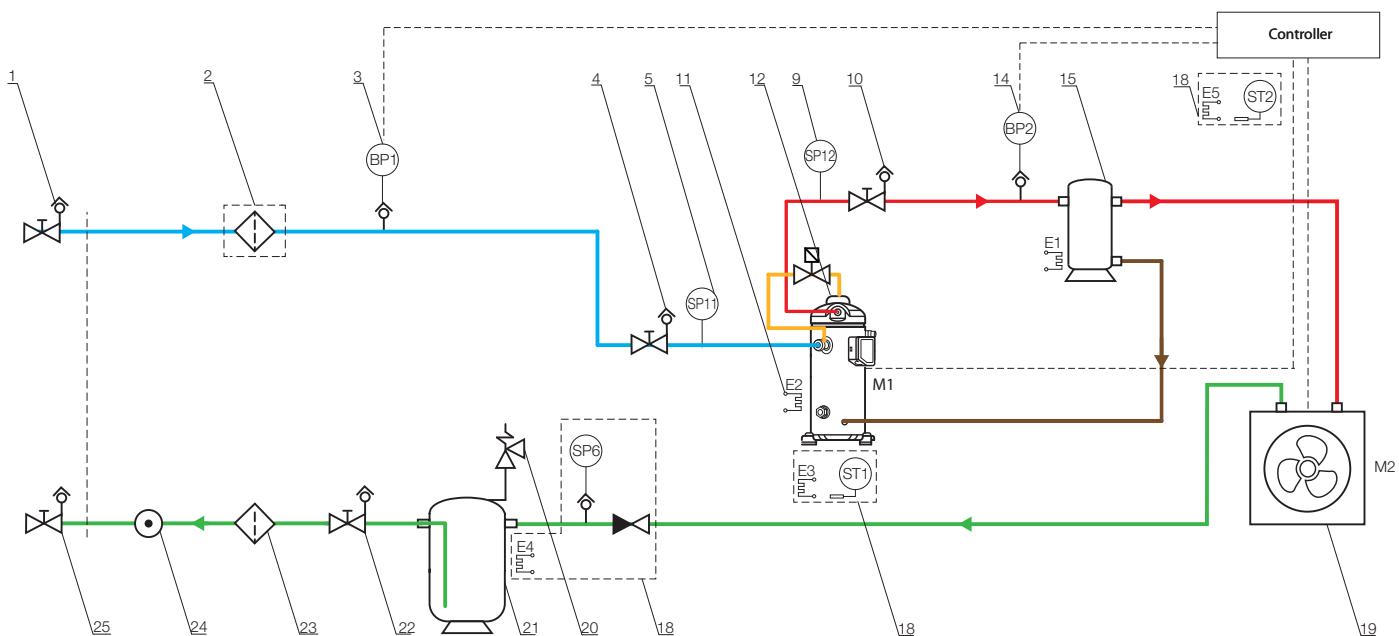
(3) Rated conditions: T evaporating -10 °C T ambient +32 °C Return Gas Temp 20 °C Subcooling 3 K (Directive 2009/125/EC)

(4) Sound pressure is measured at 10m distance, in free field conditions on the surface of a parallelepiped according to EN 13487

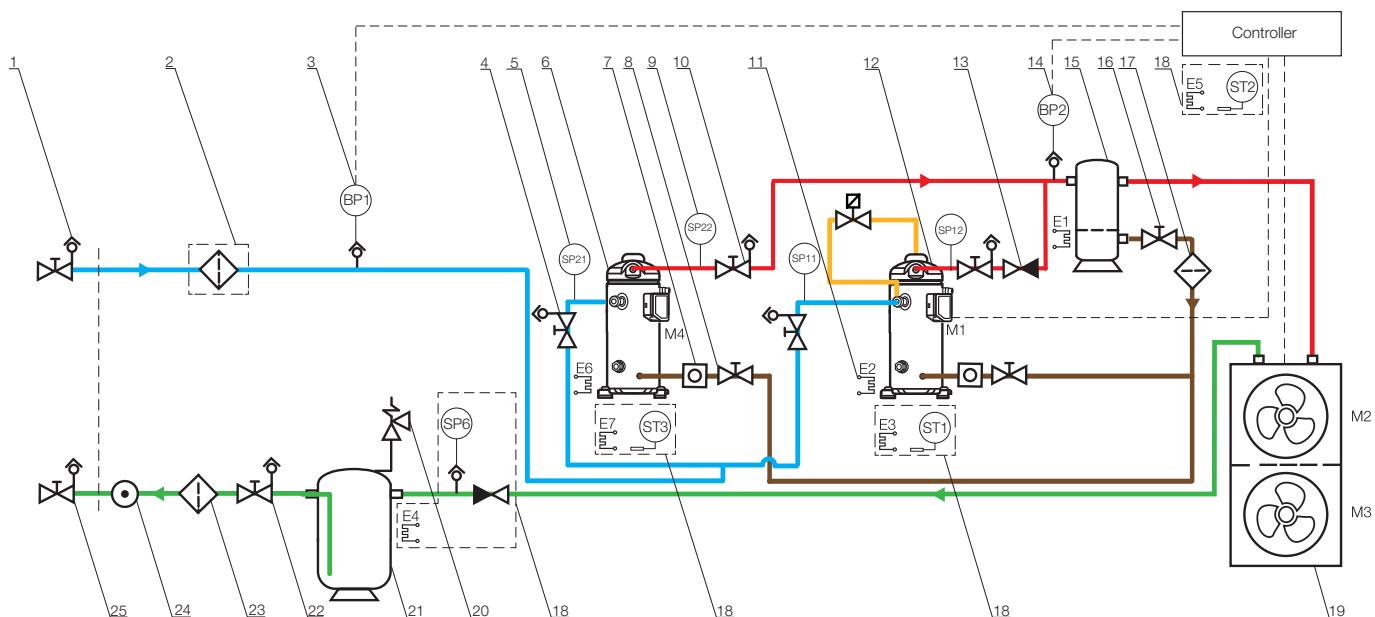
(5) Weights are indicated for models with all options

Piping and instrumentation diagram

OA143-MS-S70	OA143-MS-S92	OA143-MS-S111	OA143-MS-S130	OA143-MS-S172	OA143-MS-S220
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OA143-MS-S259	OA143-MS-S315	OA143-MS-S442	OA143-MS-S582
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- 1 Suction line shut-off valve
 2 Suction line filter [Option]
 3, 14 HP/LP pressure sensors (BP1), (BP2)
 4 Compressor inlet shut-off valve
 5, 9 Low pressure switch (SP11), (SP21) and high pressure switch (SP12), (SP22)
 6 Scroll compressor (M4)
 7 Electronic oil level controllers
 8 Shut-off valve
 10 Compressor outlet shut-off valve
 11 Crankcase heater (E2), (E6)
 12 Scroll compressor (M1), Digital Scroll™ – stepless capacity modulation system
 13 Check valve (for units OA143-MS-S259 and OA143-MS-S315)
 15 Oil separator (with built-in receiver – 2 compressors), oil separator heater (E1)

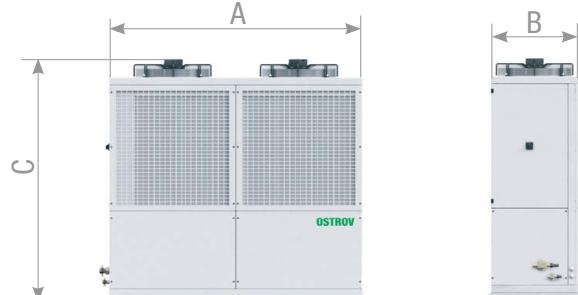
- 16 Shut-off valve
 17 Oil filter
 18 Winter package [Option]:
 – additional crankcase heater (E3), (E7), thermostat (ST1), (ST3)
 – electrical panel heater (E5), thermostat (ST2)
 – receiver heater (E4), heater control pressure switch (SP6), check valve
 19 Air cooled condenser (M2, M3), EC fan
 20 Safety valve
 21 Refrigerant receiver
 22 Receiver outlet shut-off valve
 23 Filter drier
 24 Sight glass with moisture indicator
 25 Liquid line shut-off valve

Technical data		0A151-LS-E19	0A151-LS-E36	0A151-LS-E43	0A151-LS-E59	0A151-LS-E68	0A151-LS-E77	0A151-LS-E97	0A151-LS-E121	0A151-LS-E176	0A151-LS-E268	0A151-LS-E316
Cooling capacity ⁽¹⁾ R404A	kW	1.11	2.09	2.58	3.55	4.14	4.76	5.85	7.46	11.01	16.85	20.18
Power consumption ⁽²⁾ R404A	kW	1.08	1.77	2.20	3.02	3.55	4.12	4.84	6.29	9.21	13.59	17.15
SEPR ⁽³⁾	-	1.88	1.89	1.89	1.87	1.86	1.90	1.89	1.82	1.84	1.82	1.82
COP ⁽³⁾		1.18	1.37	1.37	1.37	1.36	1.36	1.42	1.40	1.40	1.43	1.39
Capacity control		0/100%										
Compressor												
Compressor type		semi-hermetic reciprocating										
Model		2GES2Y	2DES2Y	2CES3Y	4EES4Y	4DES5Y	4CES6Y	4TES9Y	4NES14Y	4HE18Y	4FE28Y	6GE34Y
Power supply		~3-400V-50Hz										
Maximum operating current	A	5.0	7.5	9.1	12.2	14.5	17.7	19.9	26.6	36.7	52.8	65.5
Starting current	A	22.5	30.7	37.0	53.5	62.2	82.4	49.0	69.0	97.0	141.0	141.0
Condenser												
Fans	N x mm	1 x 400	1 x 450	1 x 450	1 x 500	1 x 500	1 x 500	1 x 560	1 x 560	2 x 500	2 x 630	2 x 630
Power consumption	kW	0.12	0.19	0.19	0.27	0.27	0.27	0.41	0.41	0.54	1.20	1.20
Maximum operating current	A	0.53	0.86	0.86	1.18	1.18	1.18	1.8	1.8	2.36	2.4	2.4
Air flow	m³/h	2390	3650	3650	4480	4480	4480	6110	6110	8920	17200	17200
Refrigerant receiver	l	3.4	6.0	6.0	7.8	7.8	7.8	10.0	10.0	18.0	2 x 24.5	2 x 24.5
Sound pressure level ⁽⁴⁾	dB(A)	28	32	32	35	36	38	40	44	42	47	50
Suction line	inch	5/8"	7/8"	7/8"	1 1/8"	1 1/8"	1 1/8"	1 3/8"	1 3/8"	1 5/8"	2 1/8"	2 1/8"
Liquid line	inch	3/8"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	7/8"	1 1/8"	1 1/8"
Net weight ⁽⁵⁾	kg	173	227	230	277	279	285	383	391	509	692	718
Housing type		15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	15.7	15.9	15.9

Housing	A, length	B, width	C, height
	mm	mm	mm
15.2	805	515	1405
15.3	885	565	1550
15.4	965	610	1700
15.5	1085	705	1855
15.6	1195	795	2090



Housing	A, length	B, width	C, height
	mm	mm	mm
15.7	1750	610	1700
15.8	1965	705	1855
15.9	2225	795	2150



(1) Data are listed in accordance with EN 13215 under the following conditions

Temperature application	L	M
Evaporating temperature, °C	-35	-10
Ambient temperature, °C	+32	
Superheat, K	10	
Subcooling, K	3	

(2) Power consumption including fan power consumption

(3) Rated conditions: T evaporating -35 °C/T ambient +32 °C/Return Gas Temp 20 °C/Subcooling 3 K (Directive 2009/125/EC)

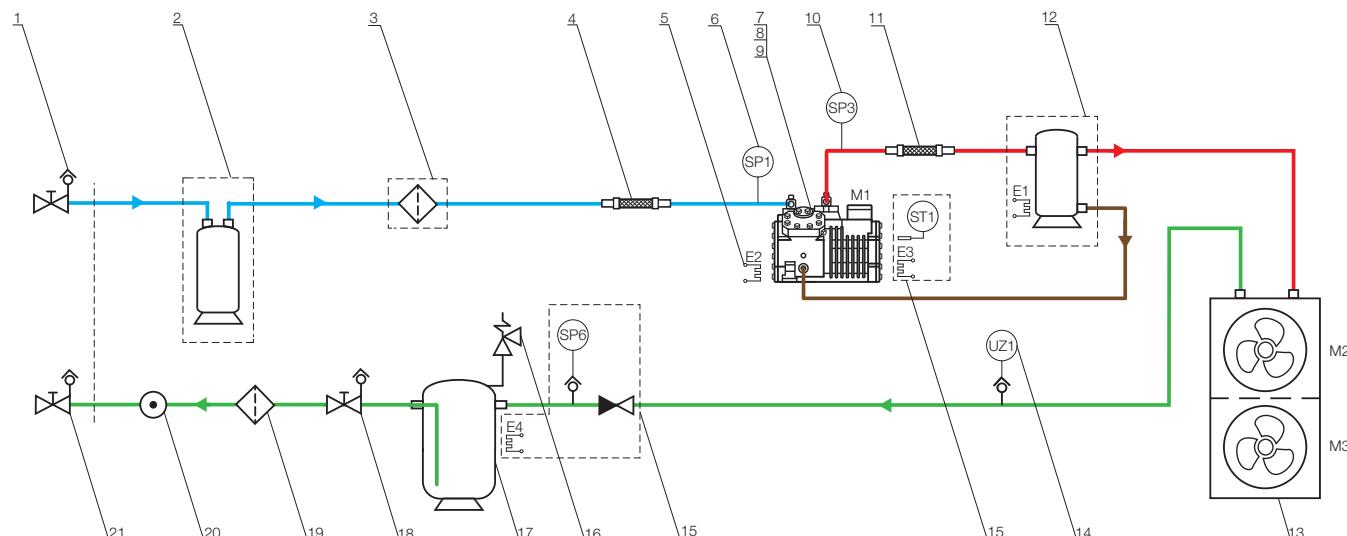
(4) Sound pressure is measured at 10m distance, in free field conditions on the surface of a parallelepiped according to EN 13487

(5) Weights are indicated for models with all options

medium temperature

0A151-MS-E46	0A151-MS-E54	0A151-MS-E82	0A151-MS-E112	0A151-MS-E143	0A151-MS-E164	0A151-MS-E206	0A151-MS-E250	0A151-MS-E299	0A151-MS-E341	0A151-MS-E454
3.65	4.33	6.66	9.01	11.44	13.27	16.52	20.12	23.83	27.41	36.79
1.87	2.31	3.22	4.3	5.45	6.56	8	9.55	10.83	13.01	17.33
-	-	3.23	3.31	3.31	3.15	3.22	3.24	3.36	3.23	3.24
2.08	1.99	2.21	2.23	2.24	2.16	2.20	2.25	2.34	2.25	2.27
0/100%										
semi-hermetic reciprocating										
2GES2Y	2FES3Y	2DES3Y	4FES5Y	4EES6Y	4DES7Y	4CES9Y	4TES12Y	4PES15Y	4NES20Y	4HE25Y
~3-400V-50Hz										
5.0	6.1	8.6	10.8	13.6	16.5	20.2	25.1	28.2	33.2	44.0
22.5	25.5	37.0	62.2	62.2	82.4	82.4	69.0	81.0	97.0	125.0
1 x 400										
0.12	0.12	0.19	0.27	0.41	0.41	0.60	0.54	0.82	0.82	1.20
0.53	0.53	0.86	1.18	1.80	1.80	1.20	2.36	3.60	3.6	2.40
2390	2390	3650	4480	6110	6110	8590	8920	12200	12200	17200
3.4	3.4	6.0	7.8	10.0	10.0	18.0	18.0	24.5	24.5	2 x 24.5
28	29	30	33	36	37	37	37	40	41	40
5/8"	5/8"	7/8"	1 1/8"	1 3/8"	1 3/8"	1 3/8"	1 5/8"	1 5/8"	1 5/8"	2 1/8"
3/8"	3/8"	1/2"	5/8"	5/8"	5/8"	7/8"	7/8"	7/8"	7/8"	1 1/8"
173	176	231	279	325	328	377	458	505	515	688
15.2	15.2	15.3	15.4	15.5	15.5	15.6	15.7	15.8	15.8	15.9

Piping and instrumentation diagram

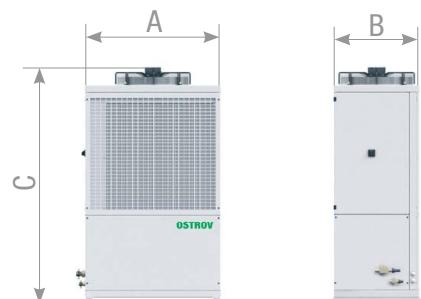


- 1 Suction line shut-off valve
- 2 Liquid separator [Option]
- 3 Suction line filter [Option]
- 4 Vibration absorber
- 5 Crankcase heater (E2)
- 6 Low pressure switch (SP1)
- 7 Compressor inlet shut-off valve
- 8 Semi-hermetic reciprocating compressor (M1)
- 9 Compressor outlet shut-off valve
- 10 High pressure switch (SP3)
- 11 Vibration absorber
- 12 Oil separator with heater (E1) [Option]

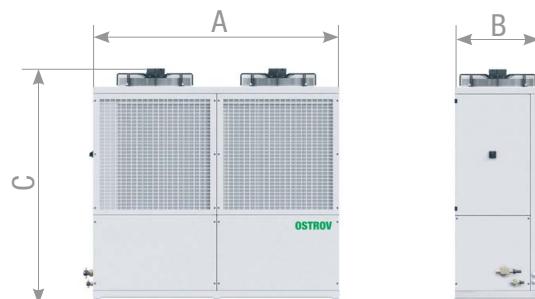
- 13 Air cooled condenser (M2, M3)
- 14 Condenser fan speed controller (UZ1)
- 15 Winter package: [Option]
 - additional crankcase heater (E3), thermostat (ST1)
 - receiver heater (E4), heater control pressure switch (SP6)
 - check valve
- 16 Safety valve
- 17 Refrigerant receiver
- 18 Receiver outlet shut-off valve
- 19 Filter drier
- 20 Sight glass with moisture indicator
- 21 Liquid line shut-off valve

Technical data			0A152-LS-H20	0A152-LS-H28	0A152-LS-H38	0A152-LS-H54	0A152-LS-H82	0A152-LS-H105	0A152-LS-E128	0A152-LS-E190	0A152-LS-E246	0A152-LS-E341	0A152-LS-E394
Cooling capacity ⁽¹⁾ R404A	kW	1.06	1.56	2.09	3.13	4.81	6.35	7.78	11.64	15.86	21.30	24.76	
Power consumption ⁽²⁾ R404A	kW	1.05	1.55	2.14	3.28	4.84	6.3	6.85	10	13.8	19.74	23.18	
SEPR ⁽³⁾		-	-	1.44	1.53	1.52	1.53	1.80	1.82	1.71	1.64	1.58	
COP ⁽³⁾		1.13	1.12	1.09	1.07	1.11	1.13	1.34	1.36	1.34	1.26	1.24	
Capacity control								0/100%					
Compressor													
Compressor type			hermetic reciprocating						semi-hermetic reciprocating				
Model			NTZ048-4	NTZ068-4	NTZ096-4	NTZ136-4	NTZ215-4	NTZ271-4	4NES14Y	4HE18Y	4FE28Y	6GE34Y	6FE44Y
Power supply			~3-400V-50Hz										
Maximum operating current	A	4.8	8.4	10.1	14.3	22.3	27.0	26.6	36.7	52.8	65.5	83.2	
Starting current	A	16.0	25.0	32.0	51.0	74.0	96.0	69.0	97.0	141.0	141.0	219.0	
Condenser													
Fans	N x mm	1 x 400	1 x 400	1 x 450	1 x 450	1 x 500	1 x 500	1 x 560	2 x 500	2 x 500	2 x 630	2 x 630	
Power consumption	kW	0.16	0.16	0.38	0.38	0.68	0.68	0.83	1.36	1.36	3.94	3.94	
Maximum operating current	A	0.73	0.73	1.80	1.80	3	3	3.60	6	6	6.80	6.80	
Air flow	m³/h	3340	3340	5450	5450	6660	6660	7950	13300	13300	27400	27400	
Refrigerant receiver	l	3.4	3.4	6.0	6.0	7.8	7.8	10.0	18.0	18.0	2 x 24.5	2 x 24.5	
Sound pressure level ⁽⁴⁾	dB(A)	43	41	52	47	53	53	52	50	55	58	59	
Suction line	inch	5/8"	5/8"	7/8"	7/8"	1 1/8"	1 1/8"	1 3/8"	1 5/8"	1 5/8"	2 1/8"	2 1/8"	
Liquid line	inch	3/8"	3/8"	1/2"	1/2"	5/8"	5/8"	5/8"	7/8"	7/8"	1 1/8"	1 1/8"	
Net weight ⁽⁵⁾	kg	137	138	194	194	252	254	399	514	542	742	755	
Housing type		15.2	15.2	15.3	15.3	15.4	15.4	15.5	15.7	15.7	15.9	15.9	

Housing	A, length	B, width	C, height
	mm	mm	mm
15.2	805	515	1405
15.3	885	565	1550
15.4	965	610	1700
15.5	1085	705	1855
15.6	1195	795	2090



Housing	A, length	B, width	C, height
	mm	mm	mm
15.7	1750	610	1700
15.9	2225	795	2150



(1) Data are listed in accordance with EN 13215 under the following conditions

Temperature application	L	M
Evaporating temperature, °C	-35	-10
Ambient temperature, °C	+32	
Superheat, K	10	
Subcooling, K	3	

(2) Power consumption including fan power consumption

(3) Rated conditions: T evaporating -35 °C/ -10 °C T ambient +32 °C Return Gas Temp 20 °C Subcooling 3 K (Directive 2009/125/EC)

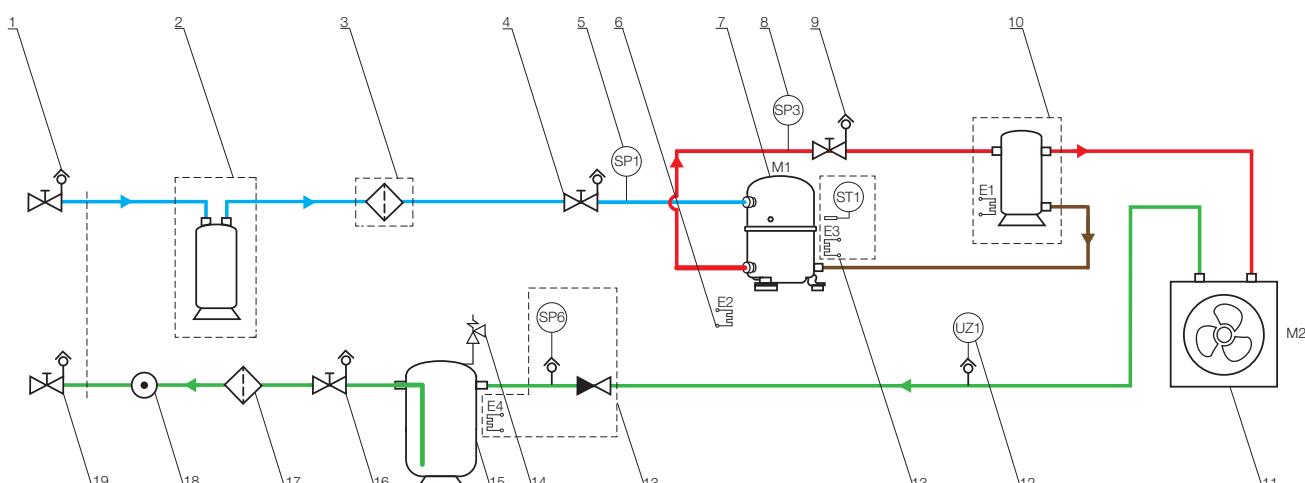
(4) Sound pressure is measured at 10m distance, in free field conditions on the surface of a parallelepiped according to EN 13487

(5) Weights are indicated for models with all options

medium temperature

0A152-MS-H54	0A152-MS-H64	0A152-MS-H87	0A152-MS-H105	0A152-MS-H164	0A152-MS-H222	0A152-MS-H267	0A152-MS-E294	0A152-MS-E340	0A152-MS-E491	0A152-MS-E546	0A152-MS-E622
4.56	5.69	7.13	8.57	13.51	18.11	22.10	23.48	27.36	39.36	44.05	50.76
2.27	3.09	3.51	4.55	7.46	10.15	12.91	12.03	13.56	19.63	22.29	27.23
-	2.42	2.76	2.62	2.68	2.62	2.45	2.93	3.07	3.00	2.95	2.80
1.90	1.77	1.87	1.85	1.85	1.85	1.80	2.08	2.16	2.13	2.11	1.99
0/100%											
hermetic reciprocating											
MTZ032-4	MTZ040-4	MTZ050-4	MTZ064-4	MTZ100-4	MTZ125-4	MTZ160-4	4PES15Y	4NESE20Y	4HE25Y	4GE30Y	4FE35Y
-3-400V-50Hz											
8.0	10.0	12.0	13.5	22.0	27.0	36.0	28.2	33.2	44.0	51.2	62.1
25.0	38.0	47.0	64.0	90.0	105.0	130.0	81.0	97.0	125.0	141.0	141.0
1 x 400											
0.16	0.16	0.38	0.38	0.83	1.97	1.97	1.97	1.36	3.94	3.94	3.94
0.73	0.73	1.80	1.80	3.60	3.40	3.40	3.40	6	6.80	6.80	6.80
3340	3340	5450	5450	7950	13700	13700	13700	13300	27400	27400	27400
3.4	3.4	6.0	6.0	10.0	18.0	18.0	18.0	18.0	2 x 24.5	2 x 24.5	2 x 24.5
43	43	52	49	54	53	52	47	48	50	51	51
5/8"	5/8"	7/8"	7/8"	1 3/8"	1 3/8"	1 3/8"	1 3/8"	1 5/8"	2 1/8"	2 1/8"	2 1/8"
3/8"	3/8"	1/2"	1/2"	5/8"	7/8"	7/8"	7/8"	7/8"	1 1/8"	1 1/8"	1 1/8"
152	153	200	201	313	366	367	451	474	712	715	716
15.2	15.2	15.3	15.3	15.5	15.6	15.6	15.6	15.7	15.9	15.9	15.9

Piping and instrumentation diagram

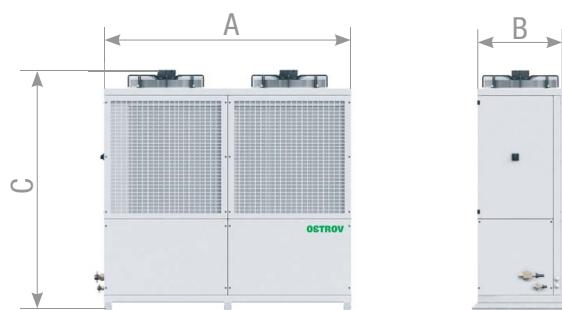
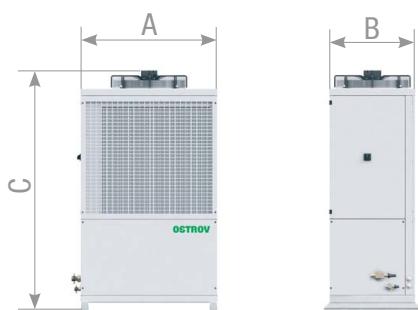


- 1 Suction line shut-off valve
 2 Liquid separator [Option]
 3 Suction line filter [Option]
 4 Compressor inlet shut-off valve
 5 Low pressure switch (SP1)
 6 Crankcase heater (E2)
 7 Hermetic reciprocating compressor (M1)
 8 High pressure switch (SP3)
 9 Compressor outlet shut-off valve
 10 Oil separator with heater (E1) [Option]
 11 Air cooled condenser (M2)
- 12 Condenser fan speed controller (UZ1)
 13 Winter package [Option]:
 - additional crankcase heater (E3), thermostat (ST1)
 - receiver heater (E4), heater control pressure switch (SP6), check valve
 14 Safety valve
 15 Refrigerant receiver
 16 Receiver outlet shut-off valve
 17 Filter drier
 18 Sight glass with moisture indicator
 19 Liquid line shut-off valve

Technical data		0A153-MS-E103	0A153-MS-E145	0A153-MS-E202	0A153-MS-E239	0A153-MS-E271	0A153-MS-E306	0A153-MS-E401	0A152-MS-E463	0A152-MS-E532
Cooling capacity ⁽¹⁾ R404A	kW	8.23	11.74	16.16	19.27	22.22	25.29	32.05	37.31	43.03
Power consumption ⁽²⁾ R404A	kW	4.16	5.75	7.62	9.59	11.56	14.23	15.09	18.06	22.11
SEPR ⁽³⁾		3.46	3.80	3.91	3.90	3.85	3.75	3.91	3.91	3.84
COP ⁽³⁾		2.09	2.18	2.26	2.14	2.06	1.91	2.26	2.20	2.08
Capacity control					30/100%				20/100%	
Compressor										
Compressor type										semi-hermetic reciprocating
Model		2FES3Y	2DES3Y	4FES5Y	4EES6Y	4DES7Y	4CES9Y	4EES6Y+4EES9Y	4DES7Y+4DES7Y	4CES9Y+4CES9Y
Power supply										~3-400V-50Hz
Maximum operating current	A	10.6	15.0	18.8	23.70	28.70	35.10	37.30	45.20	55.30
Starting current	A	21.2	30.0	30.08	37.92	45.92	56.16	85.90	111.10	117.50
Condenser										
Fans	N x mm	1 x 500	1 x 500	1 x 630	1 x 630	1 x 630	1 x 630	2 x 630	2 x 630	2 x 630
Power consumption	kW	0.5	0.5	0.7	0.7	0.7	0.7	1.4	1.4	1.4
Maximum operating current	A	2.2	2.2	1.1	1.1	1.1	1.1	2.2	2.2	2.2
Air flow	m³/h	6380	6380	9790	9790	9790	9790	19600	19600	19600
Refrigerant receiver	l	7.8	7.8	18.0	18.0	18.0	18.0	2 x 24.5	2 x 24.5	2 x 24.5
Sound pressure level ⁽⁴⁾	dB(A)	42	42	45	47	48	48	48	49	49
Suction line	inch	1 1/8"	1 1/8"	1 3/8"	1 3/8"	1 5/8"	1 5/8"	2 1/8"	2 1/8"	2 1/8"
Liquid line	inch	5/8"	5/8"	7/8"	7/8"	7/8"	7/8"	1 1/8"	1 1/8"	1 1/8"
Net weight ⁽⁵⁾	kg	232	260	378	378	381	383	662	668	673
Housing type		15.4	15.4	15.6	15.6	15.6	15.6	15.9	15.9	15.9

Housing	A, length	B, width	C, height
	mm	mm	mm
15.4	965	610	1700
15.6	1195	795	2090

Housing	A, length	B, width	C, height
	mm	mm	mm
15.9	2225	795	2150



(1) Data are listed in accordance with EN 13215 under the following conditions

Evaporating temperature, °C	-10
Ambient temperature, °C	+32
Superheat, K	10
Subcooling, K	3

(2) Power consumption including fan power consumption

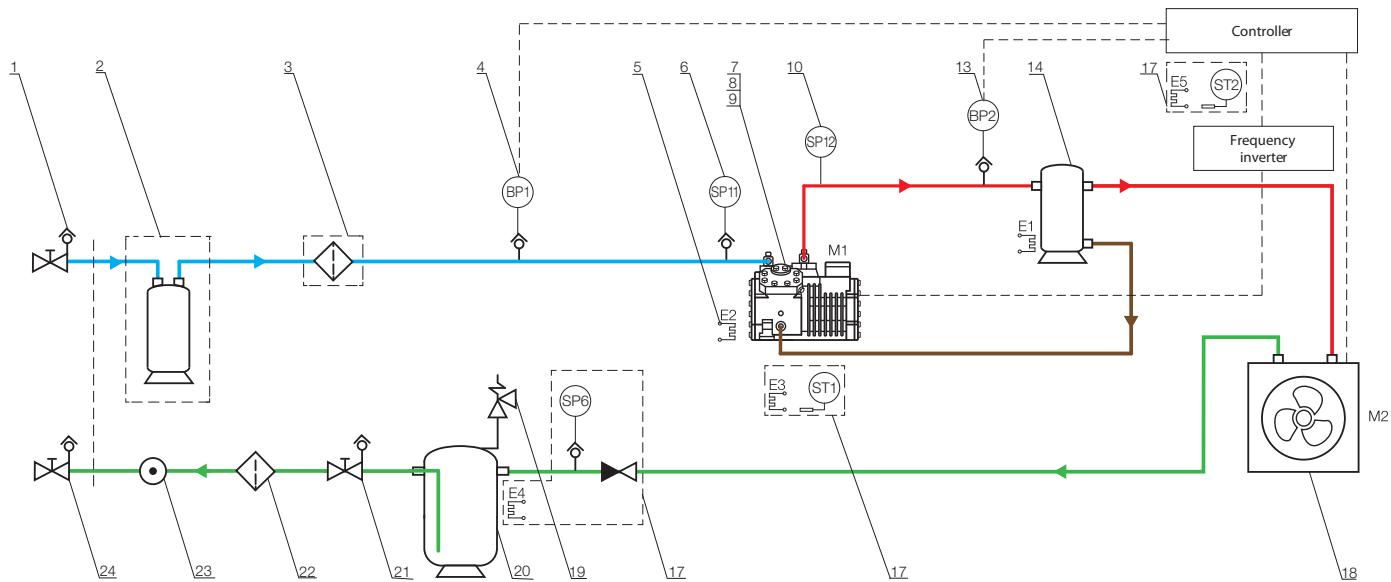
(3) Rated conditions: T evaporating -10 °C T ambient +32 °C Return Gas Temp 20 °C Subcooling 3 K (Directive 2009/125/EC)

(4) Sound pressure is measured at 10m distance, in free field conditions on the surface of a parallelepiped according to EN 13487

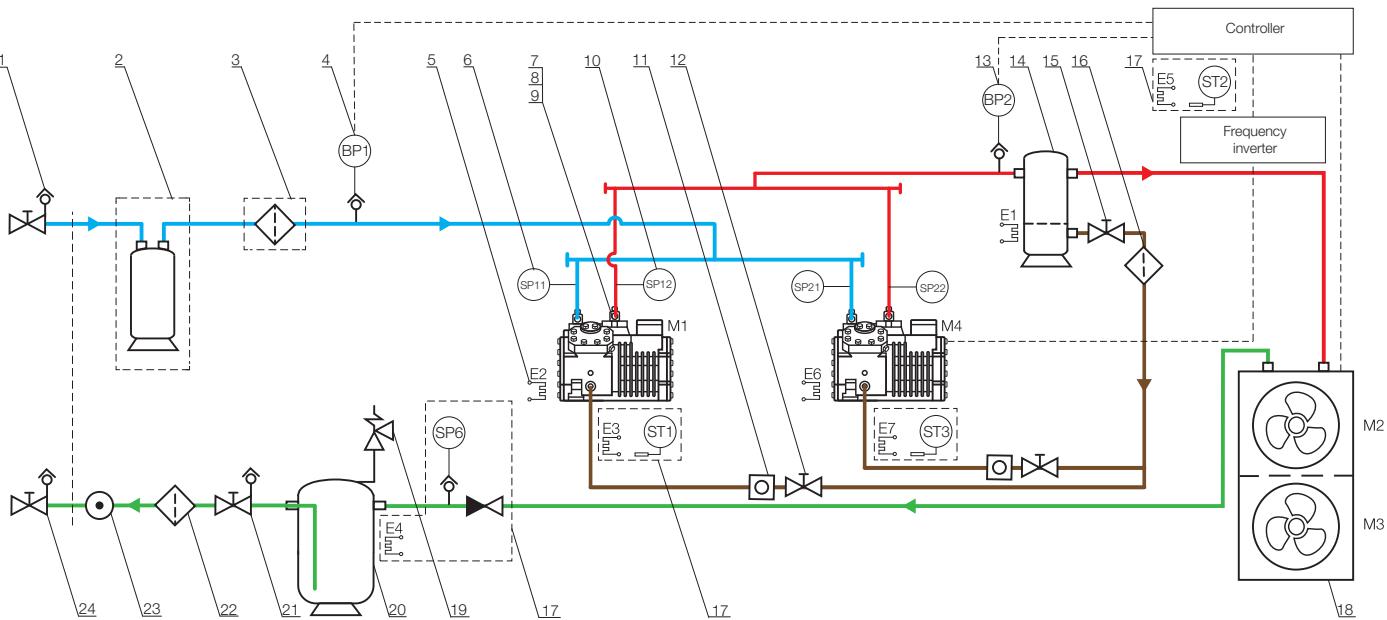
(5) Weights are indicated for models with all options

Piping and instrumentation diagram

OA153-MS-E103	OA153-MS-E145	OA153-MS-E202	OA153-MS-E239	OA153-MS-E271	OA153-MS-E306
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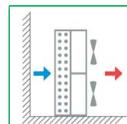
OA153-MS-E401	OA153-MS-E463	OA153-MS-E532
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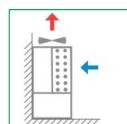
- | | |
|--|---|
| 1 Suction line shut-off valve | 15 Shut-off valve |
| 2 Liquid separator [Option] | 16 Oil filter |
| 3 Suction line filter [Option] | 17 Winter package [Option]: |
| 4, 13 HP/LP pressure sensors (BP1), (BP2) | - additional crankcase heater (E3), (E7), thermostat (ST1), (ST3) |
| 5 Crankcase heater (E2), (E6) | - electrical panel heater (E5), thermostat (ST2) |
| 6, 10 Low pressure switch (SP11), (SP21) and high pressure switch (SP12), (SP22) | - receiver heater (E4), heater control pressure switch (SP6), check valve |
| 7 Semi-hermetic reciprocating compressor (M1), (M4) | 18 Air cooled condenser (M2, M3), EC fan |
| 8 Compressor outlet shut-off valve | 19 Safety valve |
| 9 Compressor inlet shut-off valve | 20 Refrigerant receiver |
| 11 Electronic oil level controllers | 21 Receiver outlet shut-off valve |
| 12 Shut-off valve | 22 Filter drier |
| 14 Oil separator (with built-in receiver – 2 compressors), oil separator heater (E1) | 23 Sight glass with moisture indicator |
| | 24 Liquid line shut-off valve |

i1

Spacing chart



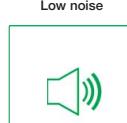
OA14



OA15



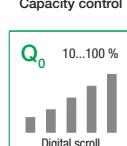
OA141
OA143
OA151
OA153



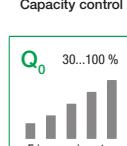
OA152



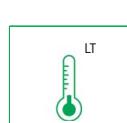
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OA151
OA152



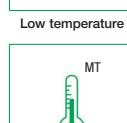
OA143



OA153



OA141
OA151
OA152



OA141
OA143
OA151
OA152
OA153

3

Capacity control

4

Temperature range

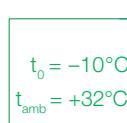
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Refrigerant

Model by software



R134a	R448A
R404A	R449A
R507A	R450A
R407A	R452A
R407C	R513A
R407F	



$$Q_0 = f(t_0, t_{amb})$$

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Data sheets

Complete technical information on each unit.



P&I Diagrams

Piping and instrumentation diagrams.



Drawings

General view drawings. PDF & DWG format.



3D Models

3D models. DWG format. 1:1 scale.



Electrical diagrams

Wiring diagrams.



Price list

Up-to-date price list. Prices in euro without VAT.



Operating instructions

Detailed instructions on installation, operation and maintenance.



Packaging

Dimensions and weight of products with packaging.



Selection guide

Easy way to select units. Useful application information.



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