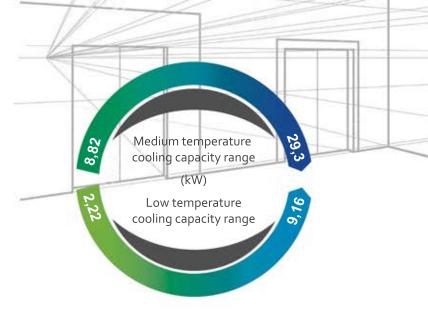




COMPRESSOR-RECEIVER UNITS

UNIT DESCRIPTION

Refrigeration units are designed for small and medium size commercial and industrial refrigeration. Our units are equipped with compact semi-hermetic reciprocating compressor - it combines high efficiency, smooth running, a wide range of applications and flexibility in refrigerant selection, solid design and high reliability. Also we provide a variety of options which can improve refrigeration system work.



BASIC UNIT EQUIPMENT

Piston compressor equipped with shut-off valves on suction and discharge lines, pressure limiters for high and low pressure protection, motor with PTC sensor, oil charge, sigh glass, SE-B1 motor protection device, enclosure class IP65 plastic terminal box and elastomer damper elements for vibration damping.

Receiver

20/27 | Horizontal liquid receiver with base plate RAL 9005 MAT, shut-off valves on condensing and liquid lines, sigh glass and safety valve.

Connections

Cooper suction and delivery pipes, insulated suction line.

ADDITIONAL OPTIONS

- Electrical cabinet without electronic controller

- Compressor head cooling OLC-K1 - Electronic oil level control

CR - Capacity control

- Oil separator OS

VGA - Vibration absorber on HP line - Condensation pressure control1

NRD - Differential valve1

DCH - Check valve on discharge line1 CHC - Check valve on condensing line1

LL - Liquid level sensor - Filter drier on liquid line FD - Sigh glass on liquid line SG BV - Liquid line ball valve

SS - Suction line liquid separator **VGA** - Vibration absorber on LP line



TECHNICAL DATA

Low temperature with Bitzer compressors technical data

	Series		ES-57 SES-127															
	4FES-3Y	4FES-5Y	4EES-4Y	4EES-6Y	4DES-5Y	4DES-7Y	4CES-6Y	4CES-9Y	4VES-7Y	4VES-10Y	4TES-9Y	4TES-12Y	4PES-12Y	4PES-15Y	4NES-14Y	4NES-20Y		
Cooling capacity [1]				3,03	3,83	3,7	4,57	4,57	5,4	5,4	5,08	5,11	6,48	6,45	6,97	6,88	8,82	8,86
Unit pow	er consumption [1]	kW	2,24	2,26	2,77	2,71	3,3	3,31	3,86	3,86	3,48	3,51	4,44	4,41	4,74	4,72	6,03	6,03
	Quantity	no									1							
	Refrigerant		R404A/R507															
Compressor	Туре									Recip	rocating						8,82	
	Oil type									BS	E32							
	Oil charge	dm3		2.0 2.6														
Liquid receiver	Sigh glass	model	SW-36															
	Safety valve	model	3060/45C275															
	Volume	1				- 12	20				-			- 3	27		22 35 22 18 26,6 69/113 70,3	
	Discharge line	16	16	16	16	16	16	16	22	22	22	22	22	22	22	22	22	22
	Suction line	200000	22	22	28	28	28	28	35	35	35	35	35	35	35	35 35 22 22	35	35
Connections	Condencing line	mm	16	16	16	16	18	18	18	18	22	22	22	22	22	22	22	22
	Liquid line	1	16	16	16	16	16	16	16	16	16	16	18	18	18	18	18	18
Bernitt (St.	Power supply	V/Ph/Hz								380-42	20/3~/50							
Electrical characteristics	Max. operating current		9,5	10,8	12,2	13,6	14,5	16,5	17,7	20,2	16,6	19,9	19,9	25,1	22,7	28,2	26,6	33,2
Cinaracteristics	Starting current	A .	44,2	62,2	53,5	62,2	62,2	82,4	82,4	82,4	39/68	59/99	49/81	69/113	59/99	81/132	22 35 22 18 26,6 69/113 70,3	97/158
Sound pressure	STD [2]	dB(A)	60,6	60,6	63,3	63,6	65,66	65,66	66,11	66,11	64,3	64,3	66,3	66,3	68,3	68,3	70,3	70,3
	Picture	no	1 2															
20000000000	Length					6	20							8	00		22 35 22 18 26,6 69/113 70,3	
Dimensions	Width	mm		478										5	20			
	Height					7	56							. 7	74			
Un	it weight [3]	kg	104	108	106	108	107,5	110,5	112,5	112,5	159	169	164	171	169	172	171	180

^[1] Cond. Temp. +40 °C Evap. Temp. -35 °C Suction gas temperature 20 °C, without liquid subcooling [2] Db(A)10 m
[3] Unit weight - ~Basic delivery weight

Medium temperature with Bitzer compressors technical data

	Series	i i				CE	35			CE4S									
	4FES-3Y	4FES-5Y	4EES-4Y	4EES-6Y	4DES-5Y	4DES-7Y	4CES-6Y	4CES-9Y	4VES-7Y	4VES-10Y	4TES-9Y	4TES-12Y	4PES-12Y	4PES-15Y	4NES-14Y	4NES-20Y			
Cooling capacity [1]				9,1	11,6	11,4	13,8	13,8	16,7	16,7	17,2	17,2	20,99	20,9	23,8	23,7	28,6	28,6	
Unit powe	er consumption [1]	kW	4,17	4,09	5,34	5,14	6,3	6,16	7,51	7,51	7,59	7,32	9,28	9,02	10,27	10,17	12,48	12,2	
	Quantity	no			Annual Control	Bronn secunion	***************************************	*		A. Harriston Commission	1		Aptonius (CO) (CO)			*,000		Annua montana	
	Refrigerant		R404A/R507																
Compressor	Туре									Recip	rocating						22 35 22 18 26,6 69/113 70,3		
	Oil type										SE32								
	Oil charge	dm3				2	0,0							2,6					
Liquid receiver	Sigh glass		Yes																
	Safety valve		Instaled PS 27,5 bar																
	Volume	17					20								27		100 000		
	Discharge line		16	16	16	16	16	16	22	22	22	22	22	22	22	22	22	22	
2	Suction line		22	22	28	28	28	28	35	35	35	35	35	35	35	35	28,6 12,48 22 35 22 18 26,6 69/113	35	
Connections	Condencing line	mm	16	16	16	16	18	18	18	18	22	22	22	22	22	22		22	
	Liquid line		16	16	16	16	16	16	16	16	16	16	18	18	18	18		18	
	Power supply	V/Ph/Hz								380-42	20/3~/50								
Electrical	Max. operating current	20	9,5	10,8	12,2	13,6	14,5	16,5	17,7	20,2	16,6	19,9	19,9	25,1	22,7	28,2	26,6	33,2	
Crian arcum rauca	Starting current	A	44,2	62,2	53,5	62,2	62,2	82,4	82,4	82,4	39/68	59/99	49/81	69/113	59/99	81/132	28,6 12,48 22 35 22 18 26,6 69/113 70,3	97/158	
Sound pressure	STD [2]	dB(A)	60,6	60,6	63,3	63,6	65,66	65,66	66,11	66,11	64,3	64,3	66,3	66,3	68,3	68,3	70,3	70,3	
	Picture	no	1 2								2								
-	Length			620							800								
Dimensions	Width	mm		478										.5	20		22 35 22 18 26,6 69/113 70,3		
	Height					7	56							7	74		22 35 22 18 26,6 69/113 70,3		
Un	it weight [3]	kg	104	108	106	108	107,5	110,5	112,5	112,5	159	169	164	171	169	172	171	180	

^[1] Cond. Temp. +45 °C Evap. Temp. -10 °C Suction gas temperature 20 °C, without liquid subcooling [2] Db(A)10 m
[3] Unit weight - ~Basic delivery weight

TECHNICAL DATA

Low temperature with Gea compressors technical data

	Series			HG:	X34e		HGX44e					
	Model	. //-	215-4	255-4	315-4	380-4	475-4	565-4	665-4			
Cooling	capacity [1]	kW	2,22	3,01	3,88	4,96	6,67	8,23	9,16			
Unit power	consumption [1]	KW	1,89	2,38	2,98	3,72	4,64	5,5	6,49			
	Quantity	no	1									
	Refrigerant					R404A/R507						
Compressor	Туре					Reciprocating						
	Oil type	FUCHS Reniso Triton SE 55										
	Oil charge	dm3		2	.0		2,6					
	Sigh glass	model				SW-36						
Liquid receiver	Safety valve	model										
	Volume	1			20		27					
	Discharge line		22	22	22	22	28	28	28			
	Suction line	1	28	28	28	28	35	35	42			
Connections	Condencing line	mm	16	16	18	18	22	22	22			
	Liquid line		16	16	16	16	18	18	18			
	Power supply	V/Ph/Hz				380-420/3~/50		07				
Electrical characteristics	Max. operating current		8,1	9,8	12,2	15,1	19	22	26			
Cital accessors	Starting current	A	51	50	64	64	83	83	115			
Sound pressure	STD [2]	dB(A)	60,6	63,3	65,66	66,11	64,3	66,3	68,3			
	Picture	no			1			2				
name to a constitution of	Length			6	20	800						
Dimensions	Width	mm		4	78	520						
	Height			7	56	774						
Unit	weight [3]	kg	114	114	116	115	194	194	201			

^[1] Cond. Temp. +40 °C Evap. Temp. -35 °C Suction gas temperature 20 °C, without liquid subcooling [2] Db(A)10 m
[3] Unit weight - ~Basic delivery weight

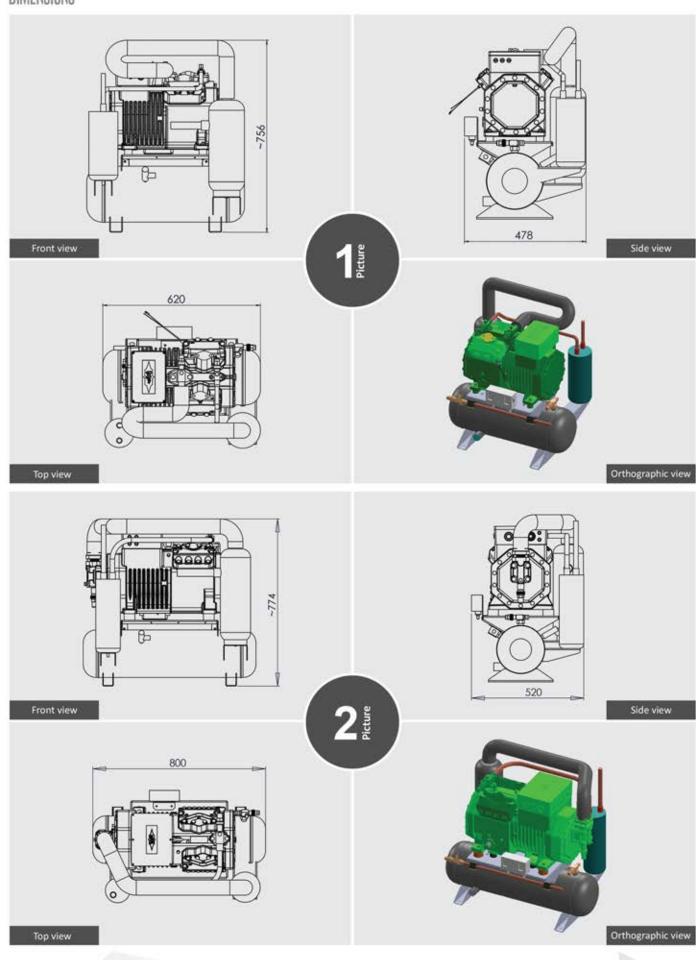
Medium temperature with Gea compressors technical data

	Series					HG)	(34e				ï	HGX44e						
	Model		215-4	215-45	255-4	255-45	315-4	315-45	380-4	380-45	475-4	475-45	565-4	565-45	665-4	665-4		
Cooling capacity [1] kW				8,91	10,6	10,7	13,3	13,3	16	16,5	21	21,2	25,1	25,6	29,1	29,3		
Unit powe	r consumption [1]	KVV	4,11	4,08	4,97	4,89	6,11	6,02 7,6 7,47 9,01 9,02 10,7 10,7 12,6 12,						12,5				
	Quantity	no																
	Refrigerant		R404A/R507															
Compressor	Type								Recipr	ocating								
	Oil type							FUC	HS Renis	o Triton Si	E 55							
	Oil charge	dm3				1	,3						2	.3	29,1			
	Sigh glass		Yes															
Liquid receiver	Safety valve							- 1	nstaled P	S 27,5 bar								
	Volume	3				2	0							27	29,1 12,6 28 42 22 18 26 115			
	Discharge line		22	22	22	22	22	22	22	22	28	28	28	28	28	28		
	Suction line	1702207	28	28	28	28	28	28	22 22 28 28 18 18	28	35	35	35	42	42	42		
Connections	Condencing line	mm	16	18	16	16	18	18	18	18	22	22	22	22	22	22		
	Liquid line		16	16	16	16	16	16	16	16	18	18	18	18	18	18		
2 0 7	Power supply	V/Ph/Hz							380-42	0/3~/50					28 42 22 18 26 115 68,3			
Electrical characteristics	Max. operating current	- 14	8,1	10,5	9,8	12,2	12,2	14,7	15,1	18	19	23	22	26	26	30		
Crian accordance	Starting current	A	51	76	50	76	64	76	64	76	83	115	83	133	28 42 22 18 26 115 68,3	133		
Sound pressure	STD [2]	dB(A)	60,6	60,6	63,3	63,6	65,66	65,66	66,11	66,11	64,3	64,3	66,3	66,3	68,3	68,3		
	Picture	no					1							2	7.1			
Dimensions	Length					62	20						8	00				
	Width	mm	478									520						
	Height					75	56						7	74	28 42 22 18 26 115 68,3			
Uni	t weight [3]	kg	114	119	114	118	116	119	115	118	194	198	194	200	201	198		

^[1] Cond. Temp. +45 °C Evap. Temp. -10 °C Suction gas temperature 20 °C, without liquid subcooling [2] Db(A)10 m
[3] Unit weight - ~Basic delivery weight



DIMENSIONS



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