

Bitzer 6H-25.2Y-40P (x4) Cool/freeze installation

Specifications

Brand	Bitzer
Type	6H-25.2Y-40P (x4) Cool/freeze installation
Refrigerant	Freon
kW at -5°C/+40°C	298.4
kW at -10°C/+40°C	246
kW at -20°C/+40°C	161.2
kW at -30°C/+40°C	98.8
kW at -40°C/+40°C	53.6
Unloaded Start	✓
Capacity Control	✓
On steel base frame	✓
Pressure safety switches	✓
Hp/Lp/Op	
Pressure gauges	✓
Hp/Lp/Op	
Control panel	✓
Package / Rack	✓
Stock	1



Description

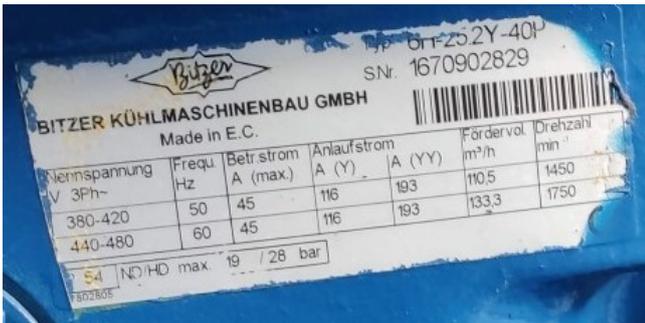
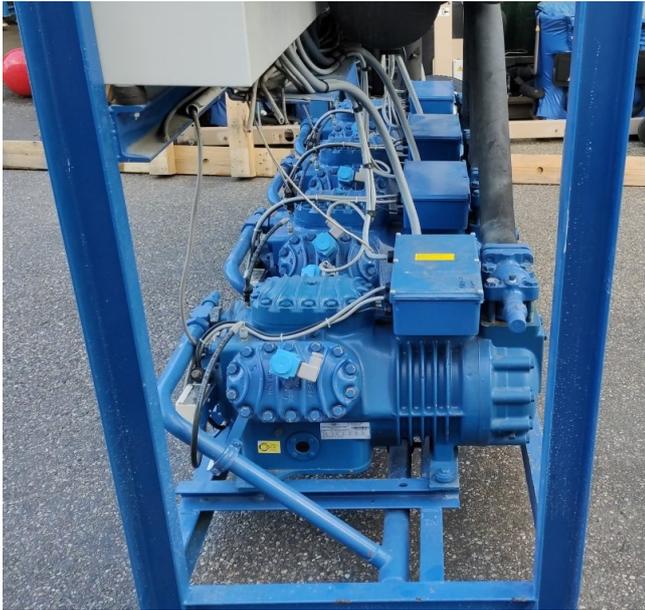
Used Bitzer 6H-25.2Y-40P (x4) Cool/freeze installation

Used but as good as new: complete Bitzer / Carrier cool / freeze unit build by Linde, consisting of the following main components: 4 cool/freeze Semi-hermetic Reciprocating Compressors type 6H-25.2Y-40P, electronic oil floaters, oil separator, central suction manifold and switch-board with complete control system. *Why choose for HOSBV? Were not only the largest used refrigeration specialist in Europe, but also, we deliver all equipment including an extensive test, warranty and industrial cleaning. *Optional we



can also perform a new paint job and arrange the logistics.





Selection: Semi-hermetic Reciprocating Compressors

Input Values

Compressor model	(6H-25.2V)	Suction gas temperature	20.00 °C
Mode	Refrigeration and Air conditioning	Operating mode	Auto
Refrigerant	R404A	Power supply	400V-3-50Hz
Reference temperature	Dew point temp.	Capacity control	100%
Liq. subc. (in condenser)	0 K	Useful superheat	100%

Result

Q [W]	Cooling capacity	COP [-]	COPEER
Q _u [W]	Evaporator capacity	m [kg/h]	Mass flow
P [kW]	Power input	Op.	Operating mode
I [A]	Current	th [°C]	Discharge gas temp. w/o cooling
Q _c [W]	Condenser Capacity (w. HX)		

tc	ts	-5°C	-10°C	-15°C	-20°C	-25°C	-30°C	-35°C	-40°C
30°C	Q [W]	87943	72553	59256	47812	38014	29678	22638	16741
	Q _u [W]	87943	72553	59256	47812	38014	29678	22638	16741
	P [kW]	23.5	22.1	20.6	18.83	16.94	14.95	12.89	10.81
	I [A]	39.7	37.6	35.2	32.6	29.8	27.0	24.2	21.5
	Q _c [W]	110288	93595	78807	65701	54108	43880	34886	27014
	COP [-]	3.74	3.28	2.88	2.54	2.24	1.99	1.76	1.55
	m [kg/h]	2209	1805	1462	1171	926	719	546	403
	Op.	Standard							
	th [°C]	70.7	77.4	84.5	92.1	100.2	109.1	119.0	130.1
	40°C	Q [W]	74665	61562	50196	40375	31933	24718	18595
Q _u [W]		74665	61562	50196	40375	31933	24718	18595	13438
P [kW]		27.2	25.2	23.0	20.7	18.28	15.83	13.36	10.92
I [A]		45.5	42.3	38.9	35.4	31.8	28.2	24.8	21.7
Q _c [W]		100512	85490	72046	60026	49299	39753	31286	23811
COP [-]		2.74	2.44	2.18	1.95	1.75	1.56	1.39	1.23
m [kg/h]		2114	1723	1392	1111	873	672	503	362
Op.		Standard							
th [°C]		82.4	89.1	96.3	103.9	112.2	121.2	131.4	0
50°C		Q [W]	-	50514	41135	32992	25960	19920	14765
	Q _u [W]	-	50514	41135	32992	25960	19920	14765	10395
	P [kW]	-	27.8	25.0	22.2	19.31	16.43	13.59	10.83
	I [A]	-	46.4	42.1	37.7	33.3	29.0	25.1	21.6
	Q _c [W]	-	76911	64508	54069	44302	35529	27677	20682
	COP [-]	-	1.82	1.64	1.49	1.34	1.21	1.09	0.96
	m [kg/h]	-	1635	1317	1047	818	623	460	322
	Op.	-	Standard						
	th [°C]	-	101.1	108.3	116.0	124.3	133.5	0	0

-- No calculation possible (see message in single point selection)
 *According to EN12900 (20°C suction gas temp., 0K liquid subcooling)

Application Limits 100% 6H-25.2