

# Bitzer 2EC-2.2Y-40S cool/freeze unit

## Specifications

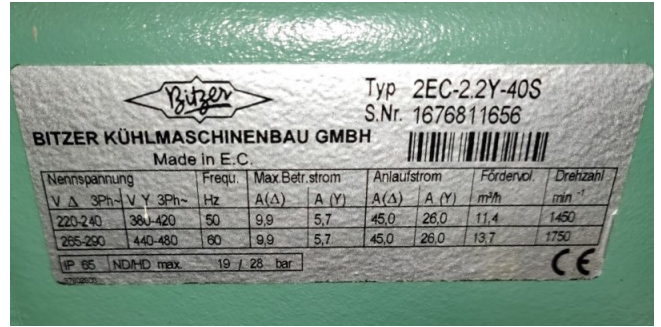
Brand	Bitzer
Type	2EC-2.2Y-40S cool/freeze unit
Refrigerant	Freon
kW at -5°C/+40°C	7.2
kW at -10°C/+40°C	5.9
kW at -20°C/+40°C	3.8
kW at -30°C/+40°C	2.3
kW at -40°C/+40°C	1.2
On steel base frame	✓
Pressure safety switches	✓
Hp/Lp/Op	
Pressure gauges	✓
Hp/Lp/Op	
Liquid receiver	✓
Oil separator	✓
Liquid line filter drier	✓
Sight Glass	✓
Remarks	yob 2009
Stock	1



## Description

### Used Bitzer 2EC-2.2Y-40S cool/freeze unit

Used, but in good condition, cool/freeze unit with a Bitzer 2EC-2.2Y-40S Semi-hermetic Reciprocating Compressor and necessary components. Our capacity table is based on the used type of Freon. You can also use these compressors on alternative types of Freon. For all the other specs (if available), see the picture of the manufacturer model plate or the attached pdf file. \*Why choose for HOSBV? We are 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 arrange the logistics.



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### Selection: Semi-hermetic Reciprocating Compressors

#### Input Values

Compressor model	(2EC-2.2Y)	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 [-]	COP/IEER
Q <sub>cr</sub> [W]	Evaporator capacity	m [kg/h]	Mass flow
P [kW]	Power input	Op. mode	Operating mode
I [A]	Current	th [°C]	Discharge gas temp. w/o cooling
Qc [W]	Condenser Capacity (w. HX)		

ic	to	-5°C	-10°C	-15°C	-20°C	-25°C	-30°C	-35°C	-40°C
36°C	Q [W]	8622	7118	5815	4692	3727	2902	2203	1612
	Q <sub>cr</sub> [W]	8022	7118	5815	4692	3727	2902	2203	1612
	P [kW]	2.39	2.27	2.13	1.97	1.79	1.60	1.40	1.20
	I [A]	4.30	4.14	3.95	3.74	3.52	3.30	3.08	2.88
	Qc [W]	10888	9273	7838	6563	5431	4426	3537	2751
	COP [-]	3.61	3.14	2.73	2.38	2.08	1.81	1.57	1.35
	m [kg/h]	217	177.0	143.4	114.9	90.7	70.3	53.1	38.8
Op. mode	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	
th [°C]	71.9	79.2	87.0	95.8	105.1	115.8	128.3	0	
40°C	Q [W]	7270	5981	4862	3995	3064	2352	1748	1238
	Q <sub>cr</sub> [W]	7270	5981	4862	3995	3064	2352	1748	1238
	P [kW]	2.75	2.55	2.34	2.11	1.87	1.64	1.40	1.16
	I [A]	4.81	4.52	4.23	3.92	3.62	3.34	3.07	2.84
	Qc [W]	9885	8404	7081	5988	4944	3907	3075	2340
	COP [-]	2.64	2.34	2.08	1.85	1.63	1.44	1.25	1.07
	m [kg/h]	205	167.4	134.8	107.2	83.7	63.9	47.3	33.4
Op. mode	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	
th [°C]	84.0	91.1	98.8	107.3	116.8	127.8	0	0	
50°C	Q [W]	5949	4872	3935	3123	2424	1826	1318	890
	Q <sub>cr</sub> [W]	5949	4872	3935	3123	2424	1826	1318	890
	P [kW]	3.08	2.80	2.52	2.23	1.95	1.67	1.39	1.13
	I [A]	5.27	4.88	4.48	4.09	3.71	3.37	3.07	2.82
	Qc [W]	8276	7533	6325	5242	4272	3408	2642	1987
	COP [-]	1.93	1.74	1.56	1.40	1.25	1.10	0.95	0.79
	m [kg/h]	185.1	157.7	128.0	99.1	76.3	57.1	41.0	27.6
Op. mode	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	
th [°C]	95.3	103.5	111.3	120.1	130.1	0	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% Octagon 2EC-2.2

