



Producer: **Danfoss**  
 Line: **SH**  
 Model: **SH295-4**  
 Cooling capacity [kW]: **40.05**  
 Displacement [m<sup>3</sup>/h]: **48.1**  
 Refrigerant: **R410A**  
 Capacity control: **None**  
 Power supply: **400V/3Ph/50Hz**

## Data

### Technical data

Displacement	[m <sup>3</sup> /h]	48.1
Swept volume	[cm <sup>3</sup> ]	276.20
Oil charge	[l]	6.70
Oil type		POE 160SZ
Internal free volume (suction)	[dm <sup>3</sup> ]	28.5
Internal free volume (discharge)	[dm <sup>3</sup> ]	2.5
Net weight	[kg]	111.00
Gross weight	[kg]	116.55

### Electrical data

Power supply		400V/3Ph/50Hz
Locked rotor amperage	[A]	260.0
Revolutions per minute	[RPM]	2900
Motor resistance main	[Ω]	0.52

### Limits

Maximum suction pressure	[bar]	48.7
Maximum discharge pressure	[bar]	31.1
Maximum suction temperature	[°C]	52.0
Minimum suction temperature	[°C]	-35.0
Maximum discharge temperature	[°C]	150.0
Minimal discharge temperature	[°C]	-35.0

### Dimensions

Suction tube diameter	[inch]	1 5/8
Discharge tube diameter	[inch]	1 1/8
Diameter	[mm]	318
Height	[mm]	683
Oil equalization		2 1/4" Rolotock
Oil drain		1/4" Flare

## Other

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Product codes	120H0825, 120H0826, 120H0827, 120H0828
Approved refrigerants	R410A
Capacity control	None
Protection rating <sup>1</sup>	IP54
Glass mounting	Threaded

## Shipped equipment

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Motor protection <sup>2</sup>	Electronic protection module, 24 V AC, Electronic protection module, 110 / 240 V
Shipped mounting	Mounting kit with rigid grommets, bolts, nuts, sleeves and washers
Shipped modules	Electronic protection module mounted in terminal box

<sup>1</sup> With cable gland.

<sup>2</sup> Depends on product version.

## Performance

Nominal conditions: refrigerant: R410A, evaporation: -10°C (dew point), condensation: 45°C (dew point), superheating: 10K, subcooling: 0°C

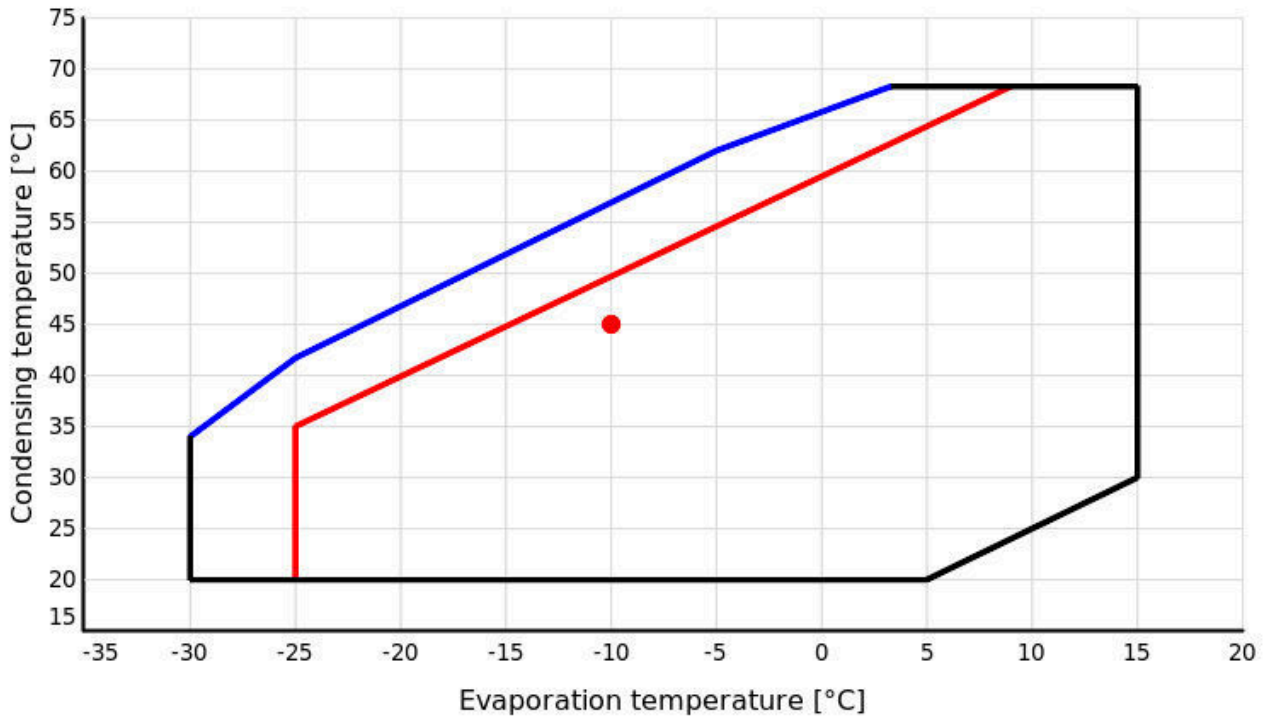
### Cooling capacity

		Evaporation temperature [°C]									
		-30	-25	-20	-15	-10	-5	0	5	10	15
Condensation temperature [°C]	20	22.85	28.73	35.75	44.02	53.67	64.84	77.63	92.18		
	25	21.44	27.16	33.95	41.93	51.22	61.96	74.26	88.25	104.06	
	30	20.02	25.56	32.09	39.74	48.65	58.93	70.71	84.11	99.27	116.30
	35		23.91	30.15	37.46	45.94	55.73	66.96	79.74	94.21	110.49
	40		22.20	28.13	35.05	43.08	52.35	63.00	75.13	88.88	104.37
	45			25.99	32.50	<b>40.05</b>	48.78	58.80	70.26	83.26	97.94
	50				29.79	36.83	44.98	54.37	65.11	77.33	91.16
	55					33.42	40.96	49.66	59.66	71.08	84.04
	60						36.69	44.69	53.91	64.49	76.54
	65								47.84	57.54	68.66

### Power consumption

		Evaporation temperature [°C]									
		-30	-25	-20	-15	-10	-5	0	5	10	15
Condensation temperature [°C]	20	10.41	10.51	10.59	10.68	10.81	11.02	11.32	11.76		
	25	11.57	11.70	11.78	11.86	11.96	12.11	12.34	12.69	13.19	
	30	12.81	12.99	13.10	13.18	13.26	13.37	13.55	13.82	14.21	14.76
	35		14.40	14.55	14.64	14.72	14.81	14.94	15.15	15.46	15.90
	40		15.94	16.14	16.27	16.36	16.44	16.54	16.69	16.93	17.29
	45			17.89	18.06	<b>18.18</b>	18.26	18.35	18.47	18.65	18.93
	50				20.04	20.19	20.30	20.38	20.48	20.62	20.84
	55					22.41	22.55	22.65	22.74	22.86	23.03
	60						25.04	25.17	25.27	25.37	25.51
	65								28.06	28.17	28.29

Application range



Legend

- Suction gas superheating: 5 K
- Suction gas superheating: 30 K

**Dimensions**

