Unit Overview

Unit Model	DOMINO SEA 055 R454B		
Refrigerant	R454B		
Compressor type	Scroll		
Eta s,c / SEER	172.00 % / 4.37	Compliant	(1)



Image is for illustration purposes only, options may not be shown.

Project conditions

	Cooling		(1)
Outdoor air dry bulb temperature	32.0 C		
Fluid entering temperature	12.0 C		
Fluid leaving temperature	6.0 C		
Fluid type and concentration	Ethylene glycol	30.00 %	
Fouling Factor	0.017620 m2-deg C/kW		
Elevation	1.0 m		

Unit performance

	Cooling
Net capacity	50.74 kW
Net unit power	15.03 kW
Gross EER	3.36 EER (kW/kW)
Net EER	3.38 EER (kW/kW)
Design flow rate	2.21 L/s
Evaporator Pressure drop (Design)	17.7 kPa

Acoustics

	Outdoor sound power level		81 dBA		(4)
Outdoor sound pressure	**1m**	**5m**	**10m**	**20m**	
	63 dBA	54 dBA	49 dBA	44 dBA	

Hydraulic module

Pump package	Single pump Low Head pressure
Pump power absorbed	1.80 kW
Available head - user side	166.7 kPa

General data - refrigerant circuit

Refrigerant	R454B
Number of compressors (circuit 1 / 2... n)	2.00
Number of circuits	1.00
Refrigerant charge per circuit	8.00
Oil charge per circuit	6 kg



General data - fan section

Fans	EC Fans
Number of outdoor fans	1.00
Total nominal airflow	22788.00

Electrical data

Start-up current	166.00 A
Maximum running current	42.30 A
Maximum power at maximum current	23.90 kW
Total Compressor Power	13.64 kW

Dimensions and weight

Length (L)	2489 mm
Width (W)	1004 mm
Height (H)	2533 mm
Operating weight	667 kg

Options

Hydraulic Kit	Without
Victaulic caps and clamps	Without
Victaulic clamps	Without
Phase fail. prot.relay + U/O volt Protec	Phase fail. prot. relay + UO Volt. Prot.
Automatic Circuit breakers	Automatic Circuit breakers
Remote control display	Without
Communication card	Serial card RS485 for Modbus
Flow switch	Flow switch
Water gauges	Without
Gas gauges	Without
Automatic water filling	Without
Water strainer	Without
Complete anti-intrusion grilles	Complete anti-intrusion grilles
Isolators	Rubber antivibration mounts
Victaulic kit	Without
Sea container package	Without
Power factor correction	Without
Literature language	English
Control panel electric heater with therm	Control panel electric heater with therm
3-way valve for hot sanitary water	Without
Flex Master controller	Without
Ethernet switch	Without
Refrigerant leak detector	Without
Unit Branding	Thermocold

Applicable standards

(1) According to EN14825:2018, considering average climate

(2) According to EN14511:2018

(3) Average sound pressure at 10 meter distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level

(4) Sound power measurements in accordance with ISO 9614:2009 (part 1)

More information

Model Number	FLEX055CXBX1XXXXXAXXXBX1FXXX
Documentation	https://www.thermocold.it/index.php?lang=en

Water pressure drop reported here does not include some accessories selected. If pumps are selected, their FLI and FLA are not included in the total ones reported in the electrical data paragraph. Please refer to the specific engineering bulletin published in Litweb for further details.

