HT Series 3i High-Throughput Evaporator Range

Specifications

Evaporator	
Max. rotor speed	1415 rpm
Max. load per swing	1.5 kg
Max. operational imbalance	80 g
Dimensions (W x D x H)	660 x 710 x 840 mm
Weight (approx) [1]	193.3 kg

Vacuum Pump (External)	
Type	Oil-free Scroll
Ultimate system vacuum	< 0.4 mbar
Dimensions (W x D x H)	432 x 282 x 302 mm
Weight	26.2 kg
Vacuum hose/control cable	3 m

Condenser	
Type	Dual-stage vapour compression
Refrigerant gas - stage 1	R449A
Refrigerant charge - stage 1	320 g
Refrigerant GWP - stage 1	1,397
Refrigerant CO_2e - stage 1	0.5 tonnes
Refrigerant gas - stage 2	R170
Refrigerant charge - stage 2	41 g
Refrigerant GWP - stage 2	6
Refrigerant CO_2e - stage 2	< 0.001 tonnes
Total CO_2 equivalent (CO_2e)	0.5 tonnes
Ultimate low temperature [2]	-75 °C
Max. Pressure (PS)	30 bar

Emissions	
Noise (@ 1 metre)	65 dB(A)
Exhaust hose (supplied)	6 mm ID / 8 mm OD

Electrical	
Supply	230 V 50 Hz
	220 V 60 Hz
	208 V 60 Hz
Max. supply input	1500 A

Power Consumption	
	Current (A) at unit voltage

Operational Environment	
Ambient temperature	15 °C to 30 °C
Relative humidity	10-80% non-condensing
Altitude	Sea-level to 1600 m
Min. ventilation air-gap	70 mm
Installation environment	Indoor only. Static-dissipative laboratory or similar

Solvent Capacity & ACC Range	
Max. solvent capacity	4.5 L
Refridgeration ACC range	100 °C

Inert Gas Supply Requirements	
Max. pressure	2 bar g (3 bar abs.)
Min. pressure	1.5 bar g (2.5 bar abs.)
Flow rate (nominal)	50 litres/min @ STP
Hose length	2.5 m
Max. consumption (purge)	120 litres approx.
Max. consumption (blanket)	60 litres/hour approx.
Connector type	3/8" BSP female

New nXDS6i Vacuum Pump

Provided with method specified pump purging to optimize vacuum and pump reliability.

[1] Varies with build options

[2] Ultimate low temperature; operational values may vary

[3] -10 °C permissable during transport (only)

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