INDIRECT EVAPORATIVE COOLING



INDEC Indirect Evaporative Cooling Unit INDEC12000P3 Technical Data

Technical Specifications

Nominal Airflow	
Supply Air (I/sec)	12000
Exhaust Air (I/sec)	6000
Total Intake Fresh Air (I/sec)	18000

Supply Fan	
Fan Type	EC Plug
Fan Motor	EC Motor
Motor Power (Watts)	4500
External Static (Pa)	250
Fan Diameter	450
Number of Fans	6

Electrical	*Cable sized to maximum FLA. Data presented for airflow at 18000 L/s
Volt/Phase	415V/3ph
Operating Supply Fan (A)	31.3 - 31.3 - 31.3
Operating Water Pump (A)	1.0
Operating Run Current (A)	32.3 - 31.3 - 31.3
Maximum Full Load (A)	41.8 - 40.8 - 40.8

Controls	
24V AC Control Relays	Included
Pump Relay	Included
Water Valve Relay	Included
BMS Capability	Included
Wall Controller	Available
BMS Fan Control 0-10V (DC)	Included
Circuit Breakers	Included
External Electrical Box	Included

Heat Exchanger	*Rated at standard conditions of 35.5° db/24.0° wb
INDEC Core	6
Supply Air Pressure Drop (Pa)	260
Exhaust Air Pressure Drop (Pa)	300
Face Velocity (m/sec)	2.5

Cabinet Construction		
Casing	50mm Colourbond Panel	
Side Access Panels	Included	
Weatherproof Intake Grill	Included	
Exhaust Air Grille	Included	
Exhaust Balancing Damper	Included	
Galvanized Base w/ Crane Hooks	Included	

Water Management	
Water Pump	6
Nominal Water Usage (LPM)	72
Inlet Pipe Size (mm)	19
UV-C Water Filter	Included
Automatic Drain Valve	Included
Drain Outlet (mm)	40
Secondary Overflow Drain (mm)	25

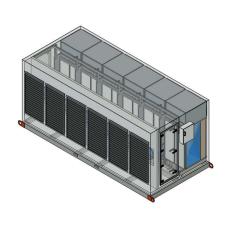
Air Filters	
Filters	Included
Filter Type	G4
Filter Thickness	50
Filter Size	12 x 390 x 1330

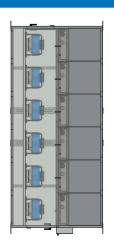
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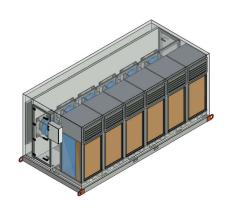


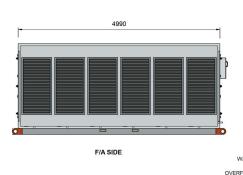
INDEC Indirect Evaporative Cooling Unit – INDEC12000P3 Technical Data

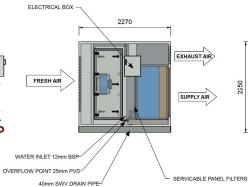
Technical Drawings – INDEC12000P3 Standard Cooling Unit

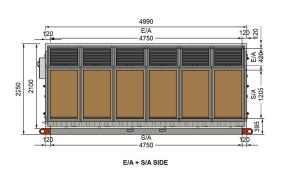










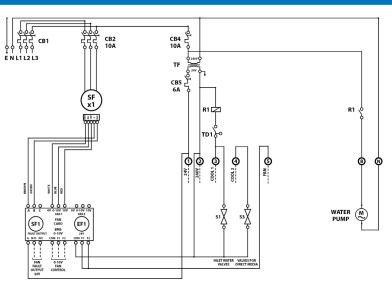


Dimensions	
Height (mm)	2250
Width (mm)	4990
Length (mm)	2270
Weight (kg)	2250
Access Clearance (mm)	1200 (Fan Access One Side)

Duct Sizes

Supply Air (mm) 4750 x 1205

Wiring Diagram



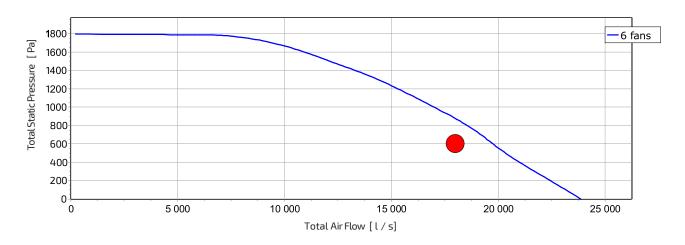
FAN CONTROLLER		
	ONNECTION or PEED VIA POTS	
STANDARD INCLUSION	IS	
CB CIRCUI	T BREAKERS	
R1 PUMP	RELAY	
SF SUPPL	Y FAN	
FIELD WIRING CONNE	CTIONS	
1 24V Ac	tive	
2 24V Cd	ommon	
3 Cool 1	- Indirect Cooling	
4 Cool 2	- Direct Cooling	
5 Fan Er	nable	
WIRING LEGEND		
SF Supply	/ Fans	
WP Water	Pumps	
TF Transf	ormer	
S1 Indired	t Water Valve	
S3 Direct	Water Valve	

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Fan Performance Data



Sound Power Levels

*Sound power levels at 600 Pa Total Static Pressure and 18000 L/s Total Air Volume

Inlet Rating dB		Outlet Rating dB	Outlet Rating dB	
63 Hz	54.4	63 Hz	58.8	
125 Hz	71.2	125 Hz	72.2	
250 Hz	83.7	250 Hz	83.7	
500 Hz	87.9	500 Hz	90.5	
1 K Hz	86.4	1K Hz	94.9	
2K Hz	88.6	2K Hz	95.8	
4K Hz	88.1	4K Hz	91.6	
8K Hz	92.8	8K Hz	92.2	
LwA	96.6	LwA	100.5	