INDIRECT EVAPORATIVE COOLING



INDEC Indirect Evaporative Cooling Unit

INDEC8000P3 Technical Data

Technical Specifications

Nominal Airflow	
Supply Air (I/sec)	8000
Exhaust Air (I/sec)	4000
Total Intake Fresh Air (I/sec)	12000

Supply Fan	
Fan Type	EC Plug
Fan Motor	EC Motor
Motor Power (Watts)	4500
External Static (Pa)	250
Fan Diameter	450
Number of Fans	4

Electrical	*Cable sized to maximum FLA. Data presented for airflow at 12000 L/s
Volt/Phase	415V/3ph
Operating Supply Fan (A)	20.8 - 20.8 - 20.8
Operating Water Pump (A)	1.0
Operating Run Current (A)	21.8 - 20.8 - 20.8
Maximum Full Load (A)	27.2 - 27.2 - 27.2

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	4
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	4
Nominal Water Usage (LPM)	48
Inlet Pipe Size (mm)	19
UV-C Water Filter	Included
Automatic Drain Valve	Included
Drain Outlet (mm)	40
Secondary Overflow Drain (mm)	25

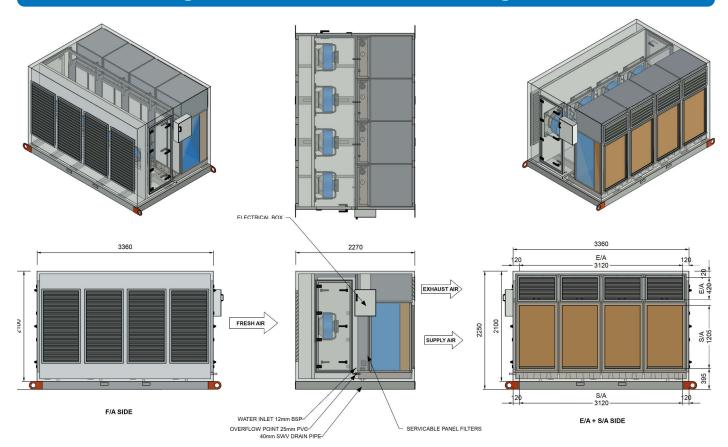
Air Filters	
Filters	Included
Filter Type	G4
Filter Thickness	50
Filter Size	8 x 390 x 1330

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Technical Drawings - INDEC8000P3 Standard Cooling Unit

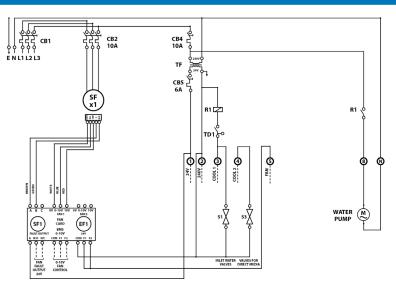


Dimensions	
Height (mm)	2250
Width (mm)	3360
Length (mm)	2270
Weight (kg)	1645
Access Clearance (mm)	1200 (Fan Access One Side)

Duct Sizes

Supply Air (mm) 3120 x 1205

Wiring Diagram



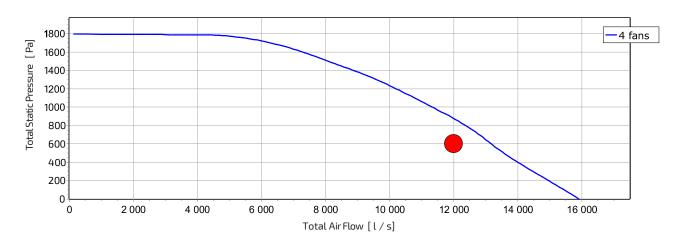
FAN CONTROL	LER	
0-10V DC	BMS CONNECTION or	
24V AC	FAN SPEED VIA POTS	
STANDARD INCLUSIONS		
СВ	CIRCUIT BREAKERS	
R1	PUMP RELAY	
SF	SUPPLY FAN	
FIELD WIRING	CONNECTIONS	
1	24V Active	
2	24V Common	
3	Cool 1 - Indirect Cooling	
4	Cool 2 - Direct Cooling	
5	Fan Enable	
WIRING LEGEN	ID	
SF	Supply Fans	
WP	Water Pumps	
TF	Transformer	
51	Indirect Water Valve	
53	Direct Water Valve	

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Fan Performance Data



Sound Power Levels

*Sound power levels at 600 Pa Total Static Pressure and 12000 L/s Total Air Volume

Inlet Rating dB		Outlet Rating dB	Outlet Rating dB	
63 Hz	52.6	63 Hz	57	
125 Hz	69.4	125 Hz	70.4	
250 Hz	81.9	250 Hz	81.9	
500 Hz	86.1	500 Hz	88.7	
1 K Hz	84.6	1K Hz	93.1	
2K Hz	86.8	2K Hz	94	
4K Hz	86.3	4K Hz	89.8	
8K Hz	91	8K Hz	90.4	
LwA	94.8	LwA	98.7	

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