

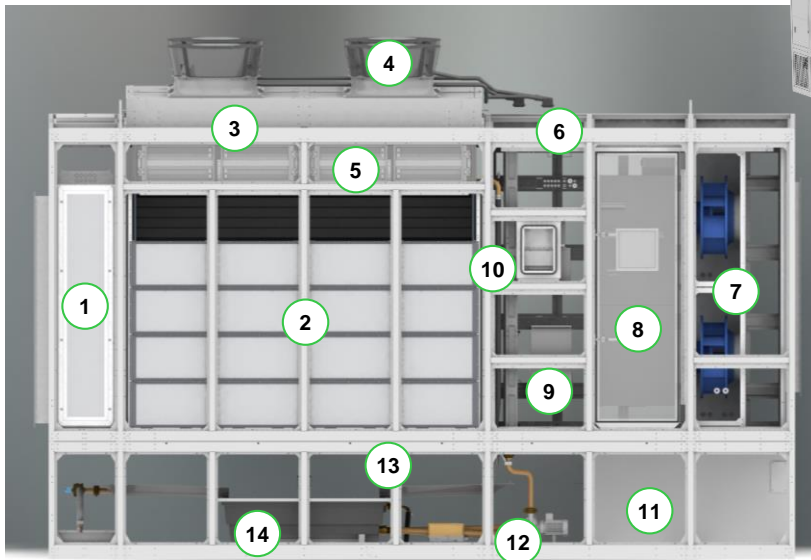


Ecoflair Air Economizers

with Indirect Evaporative Cooling

250-500kW

Ultra-efficient economizer units that consume zero white space and allow more power to IT. Configurable and customizable solution to match your specific data center needs



1 Trim cooling coil

2 Polymer heat exchanger

3 Micro-channel condenser coil

4 Ambient air fans

5 Evaporative cooling spray system

6 Walkable roof

7 IT air fans

8 Service vestibule

9 VSD scroll compressors

10 IT air filters

11 Water treatment system

12 Water circulating pumps

13 Air intake grilles

14 Evaporative water basin

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Standard Features

- Variable speed backward curved IT fans and Acousti-Composite axial ambient air fans with Electronically Commutated motors
- Easy-to-replace high efficiency IT air filters
- Modular self-cleaning air-to-air heat exchanger, fully constructed with corrosion-proof polymer materials, including header system
- Evaporative cooling system with integrated water recirculation and water filtering system
- Evaporative water basin with freeze protection and continuous water condition monitoring system
- Self-supporting galvanized steel frame with sectional lifting eyes, powder coated exterior panels, fiber reinforced plastic roof panels with skid resistance surface, fiber reinforced ambient air supply grilles
- Double layer of panels, internal air blocks for air containment and exterior panels for environmental protection
- Access panels with handles and fast release screws
- Microprocessor controls with external touchscreen user interface display and network management card

Water system options

- Integrated hydronic system with dual circulation pumps in 1+1 logic, managed by microprocessor control
- Electro-pulse water treatment

Air pattern options

- Bottom flow for roof installations
- Side flow for building perimeter installations

Dual and/or separate power supply options

- Dual power supply with automatic transfer switch (ATS) for complete redundancy without single point of failure
- Separate power supplies for critical and non-critical sub-systems

Trim cooling options

- Proportional DX system with single or dual circuited brushless variable speed scroll compressors and micro-channel condenser coils
- Chilled water coil with modulating valve
- Heat reclaim coil

Models		IAEC25	IAEC50
Economizer Type		Indirect Evaporative Air-to-Air	
Power Supply	V/Ph/Hz	400/3/50 or 460/3/60	
IT Air Fans	nr.	4	8
Max Air Flow per Fan	m ³ /hr (ACFM)	13864 (8160)	
Outdoor Air Fans	nr.	4	8
Max Air Flow per Fan	m ³ /hr (ACFM)	8495 (5000)	
Nominal Cooling Capacity	kW	250	500
DX Trim Cooling			
Refrigerant Type		R-410A	
Compressors – Single Circuit	nr.	1	2
Compressors – Dual Circuit	nr.	2	4
Dry Weight - Base Unit	kg (lb)	6800 (14991)	13600 (29982)
Operating Weight - Base Unit	kg (lb)	7525 (16589)	15050 (33179)
Length	mm (in)	6500 (256)	6500 (256)
Width	mm (in)	2400 (94.5)	4800 (189)
Height	mm (in)	4545 (179)	4545 (179)

Visit Ecoflair on the web:

schneider-electric.com/ecoflair

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