mikropor

Ice Cube (IC) Static Air Dryers

Static Air Dryers

ICE CUBE dryers have static condensers without a cooling fan. Therefore they are energy efficient with low noise level and compact design. Ice Cube dryers also have long service life and low maintenance needs.

Advantages

- Superior Energy Saving due to static condenser
- Efficient refrigerant compressor
- Low pressure drop
- +7°C dew point
- No condenser blockage due to wide condenser design
- Standard Expansion valve.
- 3 in 1 heat exchanger design
  (air/air – air/refrigerant – water separator in 1 block)
- Easy to service Auto-drain
- No loss of compressed air (Zero Loss)
- Less refrigerant gas used than equivalents,
  enviromentally friendly

Applications

Ideal for hospitals and laboratories with compact design and low noise needs. **ICE CUBE** dryers are also suitable for other applications which need dry air with a low price.

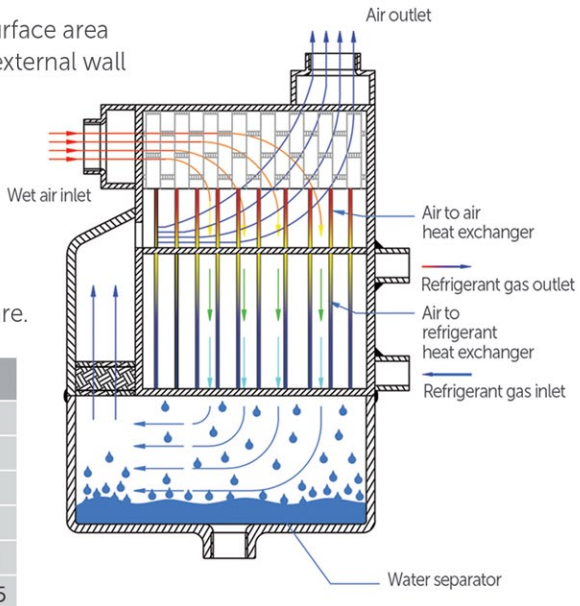
Technical Specifications

Model	Capacity (m^3/h)	Voltage	Connection Size	Absorbed Power (kw)	Max. Amp.	Fuse Amp.	Refrigerant Gas	Pressure Drop	Max. Working Pressure (bars)	Max. Ambient Temp. (°C)	Max. Inlet Temp. (°C)
IC50	50	230/1/50	1/2"	0.28	2.98	4	R-134a	140	16	43	50
IC70	70	230/1/50	1/2"	0.31	2.08	4	R-134a	170	16	43	50
IC100	100	230/1/50	3/4"	0.43	4.8	8	R-134a	200	16	43	50
IC130	130	230/1/50	3/4"	0.56	4.8	8	R-134a	180	16	43	50

Model	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
IC50	396	366	520	21
IC70	396	366	520	23
IC100	396	366	520	25
IC130	396	366	758.5	34

Aluminum Plate Heat Exchanger

- High heat transfer surface area
- Strong due to thick external wall
- Low pressure drop
- Water Separator is optimized for the best performance



Correction Factor

For maximum flow rate, multiply model flow rate show in the table below by the correction factor corresponding to the working pressure.

CORRECTION FACTORS FOR IC STATIC AIR DRYERS								
Inlet Temperature (°C)	30	35	40	45	50	-	-	-
F1	1.29	1.00	0.92	0.78	0.65	-	-	-
Ambient Temperature (°C)	20	25	30	35	40	43	-	-
F2	1.05	1	0.98	0.93	0.84	0.81	-	-
Pressure (Barg)	4	6	7	8	10	12	14	16
F3	0.80	0.94	1.00	1.04	1.11	1.16	1.22	1.25