

Static Air Dryers

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

Advantages

- Superior Energy Saving due to static condenser
- Efficient refrigerant compressor with low pressure drop
- 45°F 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
- High pressure switch
- No loss of compressed air (Zero Loss)
- Less refrigerant gas used than equivalents, environmentally friendly



Applications

Ideal for hospitals and laboratories with compact design and low noise needs. IC dryers are also suitable for other applications which need dry air with in a simple solution

Technical Specifications

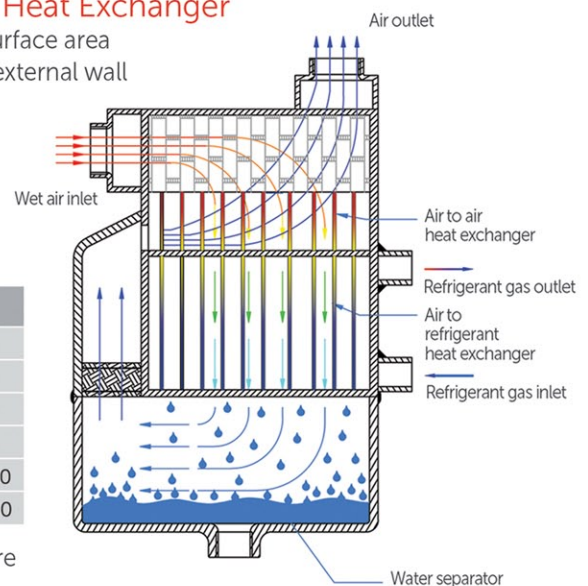
Model	Capacity (scfm)	Voltage	Connection Size (NPT)	Installed Power (kw)	Nominal Total Amp.	Fuse Amp.	Refrigerant Gas	Pressure Drop (psi)	Max. Working Pressure (psi)	Max. Ambient Temp. (°F)	Max. Inlet Temp. (°F)
IC-US-25	25	115/1/60	1/2"	0,46	3,99	6	R-134a	2.1	200	110	122
IC-US-35	35	115/1/60	1/2"	0,46	4,09	6	R-134a	2.5	200	110	122
IC-US-50	50	115/1/60	1/2"	0,66	6,22	8	R-134a	2.9	200	110	122
IC-US-60	60	115/1/60	3/4"	0,84	8,38	12	R-134a	2.6	200	110	122

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Model	Length (inch)	Width (inch)	Height (inch)	Weight (lb)
IC-US-25	14.4	14.4	20.5	28.6
IC-US-35	14.4	14.4	20.5	39.6
IC-US-50	14.4	14.4	20.5	46.2
IC-US-60	14.4	14.4	30	77.1

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

CORRECTION FACTORS FOR IC US DRYERS										
Inlet Temperature (°F)	85	90	95	100	110	120	-	-	-	-
F1	1.20	1.14	1.08	1.00	0.75	0.60	-	-	-	-
Ambient Temperature (°F)	60	80	90	100	105	110	-	-	-	-
F2	1.12	1.08	1.06	1.00	0.96	0.90	-	-	-	-
Pressure (psi)	50	60	75	100	115	125	150	175	200	-
F3	0.75	0.77	0.85	1.00	1.06	1.10	1.16	1.25	1.30	-

if an compressor delivers 20 scfm at 60 psi and dryer inlet temperature is 110°F with 90°F ambient temperature, please choose your Dryer model as follow: $20 \text{ scfm} / 0.77 / 0.75 / 1.06 = 33 \text{ scfm}$ your dryer model is IC-US-70 (with 35 scfm capacity)