

INVICTA CONDENSING UNIT (ICU)

The Invicta Condensing Unit (ICU) range are weatherproof outdoor air cooled units which can operate efficiently all year round. They offer the specifier and installer a compact, small footprint design with numerous factory fitted features as standard.

High efficiency compressors are used throughout the range consisting of rotary designs on the ICU30 and ICU40 and scroll designs on the remainder.

Units are supplied with factory fitted LP and HP switches, winter start kit and fan speed control as well as all usual control circuits and fuses. Refrigerant lines of up to 100 metres can be accommodated thus maximising positioning options.

All ICU's operate and are pre-charged with environmentally friendly R407c refrigerant, for the equivalent of up to 5 metres of pipe run. Each circuit is fitted with pipe connections (flared) and shut-off valves on the side of the case.

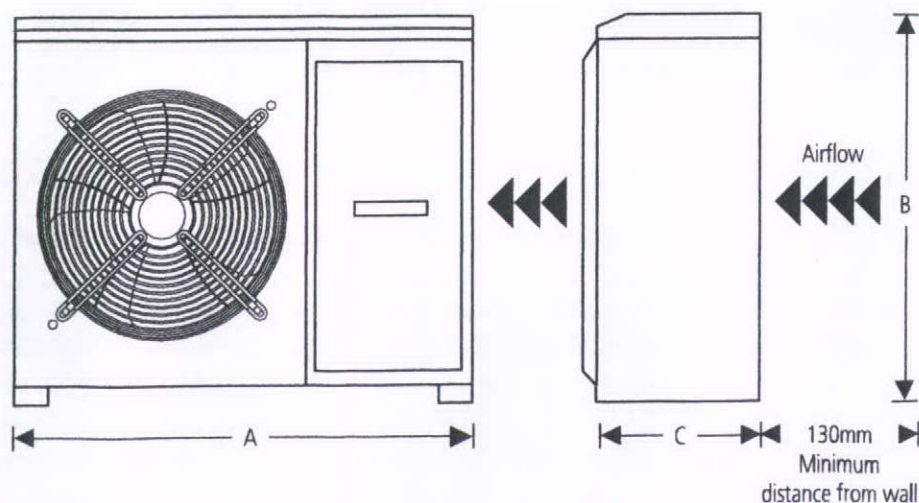
The Invicta Condensing Unit is competitively priced and is available from our national wholesalers.

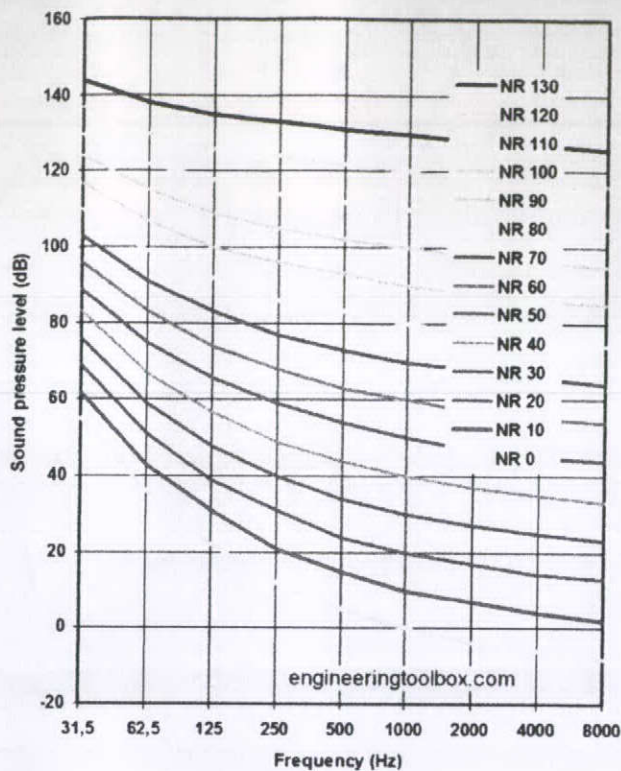
Model	Nominal Duty kW	Type	Compressor Fuse A	Phase	Noise Level NR	Width (A) mm	Height (B) mm	Depth (C) mm	Weight kg	Line Connections*	
										Suction	Liquid
ICU30	2.5	Rotary	10	1Ph	51	720	610	250	40	3/8"	1/4"
ICU40	3.7	Rotary	10	1Ph	48	720	610	250	40	1/2"	1/4"
ICU55	5.3	Scroll	16	1Ph	47	800	765	320	60	1/2"	3/8"
ICU80	8.2	Scroll	20	1Ph	53	800	765	320	61	5/8"	3/8"
ICU80	8.2	Scroll	10	3Ph	53	800	765	320	61	5/8"	3/8"
ICU100	11.4	Scroll	30	1Ph	54	1050	765	320	88	5/8"	1/2"
ICU100	11.4	Scroll	16	3Ph	54	1050	765	320	88	5/8"	1/2"
ICU135	14.4	Scroll	16	3Ph	64	1050	765	320	90	3/4"	1/2"
ICU170	18.9	Scroll	20	3Ph	64	1400	765	320	97	3/4"	1/2"

Conditions: Evaporation Temperature: 7 °C. Ambient Temperature: 30 °C.

* Line connections for 5 m length (refer to Tables A and B for other lengths).

ICU outdoor unit



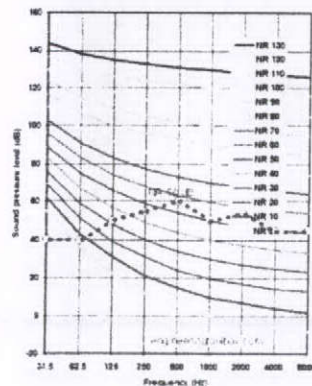


Example - Estimating NR - Noise Rating

The Noise Rating - NR - of a noise spectrum like

- 31.5 Hz : 40 dB
- 62.5 Hz : 40 dB
- 125 Hz : 50 dB
- 250 Hz : 55 dB
- 500 Hz : 60 dB
- 1000 Hz : 50 dB
- 2000 Hz : 55 dB
- 4000 Hz : 45 dB
- 8000 Hz : 45 dB

can be estimated to NR = 58 dB as indicated in the diagram below.



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Related Topics

- **Acoustics** - Room acoustics, acoustic properties - decibel A, B and C - Noise Rating (NR) curves, sound transmission, sound pressure, sound intensity, attenuation and more ..
- **Noise and Attenuation** - Noise is usually defined as unwanted sound - noise, noise generation, silencers and attenuation in HVAC systems

Related Documents

- **Acoustic Calculation of Ventilation Systems** - A procedure for acoustic noise calculation of ventilation systems
- **Comparing Noise Criteria** - Comparing Noise Criteria - Noise Criterion (NC), Noise Rating (NR) and dB(A)