



75-160 KW VARIABLE SPEED OIL-FREE ROTARY SCREW COMPRESSOR

Ultima U75/U90/U110/U132/U160

A Revolution in dry screw compressor technology!

The Ultima series compressors from Gardner Denver are the smallest, quietest and most efficient two-stage variable speed dry screw compressors on the market. Each airend is individually driven by a variable speed, permanent magnet, water-cooled motor operating at >97% efficiency. This makes Ultima a true direct-drive compressor, completely eliminating the gearbox and its associated energy loss. The intelligent on board controller (Digital Gearbox™) continuously adjusts the speed of each airend independently, delivering the perfect speed ratio that provides up to 13% better efficiency than the competition. Ultima has up to a 37%

smaller footprint than competitive machines thanks to water cooling and the elimination of the gearbox. The patented control methodology completely eliminates the need for an inlet valve and the associated pressure drop and maintenance requirements. The fully enclosed water-cooled package offers industry leading noise performance as low as 63 dBA. The GD Pilot XTC™ 8" touchscreen controller provides a user friendly state-of-the-art interface that allows data logging and sequencing capability*. Ultima is truly a revolution in oil-free compressor technology from Gardner Denver.

*with optional Base Load Selector

Gardner

Denver

Ultima Technical Data

VARIABLE SPEED MACHINES, 50 & 60 HZ

MODEL	DRIVE MOTOR		NOMINAL PRESSURE		FAD*		NOISE LEVEL** DB(A)	COOLING METHOD	WEIGHT		DIMENSIONS L x W x H IN. (MM)
	HP	KW	PSIG	BAR	ACFM	M ³ /MIN			LBS	KG	
U75	100	75	100	6.9	462	13.08	63				
			125	8.6	403	12.03					
			145	10	348	11.16					
U90	125	90	100	6.9	568	16.08	64				
			125	8.6	505	14.44					
			145	10	449	13.37					
U110	150	110	100	6.9	697	19.74	64	Water	5512	2500	80.5 x 54.9 x 78.4 (2044 x 1394 x 1992)
			125	8.6	633	17.58					
			145	10	574	16.28					
U132	180	132	100	6.9	817	23.13	66				
			125	8.6	762	20.87					
			145	10	701	19.60					
U160	215	160	100	6.9	847	23.98	69				
			125	8.6	842	23.08					
			145	10	834	22.51					

* Data measured and stated in accordance with ISO1217 4th Edition Annex C and E at the following conditions:
Air Intake Pressure: 1 bar a / 14.5 psi, Air Intake Temperature: 20°C / 68°F, Humidity: 0% (dry)

** Measured in free field conditions in accordance with the ISO 2151, tolerance ± 3 dB(A)

Standard Equipment

- 100% Oil-free
- Direct drive (no gearbox)
- Variable speed
- Water-cooled
- >97% Motor efficiency
- Ultra-quiet operation 63-69 dbA
- Completely sealed and acoustically lined silencing enclosure
- Heat recovery
- No inlet valve
- No ducting requirement
- GD Pilot XTC 8" color touchscreen controller
- Water-cooled airends, inverters, motors, intercooler and aftercooler
- Thermostatically controlled airend cooling
- Stainless steel control piping
- Line reactor & EMC filter
- iConn remote monitoring
- 2 year package warranty
- 5 year airend warranty

Available Options

- Couple relays (Remote On/Off)
- Base load selector
- Profibus interface
- Heat of compression (HOC)



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