



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 achieves up to a 47% smaller

footprint than competitive machines thanks to water cooled motors and elimination of the gearbox. The patented control methodology 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 for the water-cooled package and 64 dBA for the air-cooled package. 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* | | COOLING METHOD | NOISE LEVEL** | 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 | 463 | 13.10 | Air | 64 | 7408 | 3360 | 127.7 x 54.9 x 78.4 (3244 x 1394 x 1992) |
| | | | 125 | 8.6 | 403 | 11.42 | Water | 63 | 6063 | 2750 | 85.4 x 54.9 x 78.4 (2168 x 1394 x 1992) |
| U90 | 125 | 90 | 100 | 6.9 | 568 | 16.09 | Air | 65 | 7408 | 3360 | 127.7 x 54.9 x 78.4 (3244 x 1394 x 1992) |
| | | | 125 | 8.6 | 506 | 14.32 | Water | 64 | 6063 | 2750 | 85.4 x 54.9 x 78.4 (2168 x 1394 x 1992) |
| U110 | 150 | 110 | 100 | 6.9 | 697 | 19.75 | Air | 65 | 7408 | 3360 | 127.7 x 54.9 x 78.4 (3244 x 1394 x 1992) |
| | | | 125 | 8.6 | 634 | 17.94 | Water | 64 | 6063 | 2750 | 85.4 x 54.9 x 78.4 (2168 x 1394 x 1992) |
| U132 | 180 | 132 | 100 | 6.9 | 818 | 23.16 | Air | 67 | 7408 | 3360 | 127.7 x 54.9 x 78.4 (3244 x 1394 x 1992) |
| | | | 125 | 8.6 | 763 | 21.60 | Water | 66 | 6063 | 2750 | 85.4 x 54.9 x 78.4 (2168 x 1394 x 1992) |
| U160 | 215 | 160 | 100 | 6.9 | 848 | 24.01 | Air | 70 | 7408 | 3360 | 127.7 x 54.9 x 78.4 (3244 x 1394 x 1992) |
| | | | 125 | 8.6 | 842 | 23.85 | Water | 69 | 6063 | 2750 | 85.4 x 54.9 x 78.4 (2168 x 1394 x 1992) |
| | | | 145 | 10 | 349 | 9.87 | | | | | |
| | | | 145 | 10 | 449 | 12.73 | | | | | |
| | | | 145 | 10 | 575 | 16.28 | | | | | |
| | | | 145 | 10 | 701 | 19.86 | | | | | |
| | | | 145 | 10 | 835 | 23.64 | | | | | |

*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 or air cooled
- >97% Motor efficiency
- Ultra-quiet operation 63-70 dBA
- Completely sealed and acoustically lined silencing enclosure
- Heat recovery (water-cooled package)
- 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)
- Heat recovery (air-cooled package)

**Gardner
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