

# AR Professional Aluminium Piston Compressor

ATLAS COPCO COMPRESSORS

## AR5, AR7.5

### AR5-P49-TS-60GV

### AR5-P49-TS-80GV

#### Design

|                     |           |           |
|---------------------|-----------|-----------|
| 1. Air Cooled       | Two-Stage | Two-Stage |
| 2. Cylinders        | 2         | 2         |
| 3. Maximum pressure | 175       | 175       |

#### Inlet Conditions

|                        |      |      |
|------------------------|------|------|
| 1. Barometric Pressure | 14.7 | 14.7 |
| 2. Ambient Temperature | 68°  | 68°  |
| 3. Relative Humidity   | 36   | 36   |

#### Compressor Performance

|                                  |      |      |
|----------------------------------|------|------|
| 1. Capacity Delivered @ 100 psig | 15.4 | 25.2 |
| 2. Capacity Delivered @ MAX psig | 14.6 | 22.2 |
| 3. Pump Speed                    | 1292 | 1372 |
| 4. Pump Type                     | P49  | P49  |

#### Electrical Data

|                 |                            |                            |
|-----------------|----------------------------|----------------------------|
| 1. Motor HP     | 5                          | 5                          |
| 2. Motor type   | Induction                  | Induction                  |
| 3. Enclosure    | ODP std; TEFC opt          | ODP std; TEFC opt          |
| 4. Frequency    | 60                         | 60                         |
| 5. Voltage      | 230/1, 200/3, 230/3, 460/3 | 230/1, 200/3, 230/3, 460/3 |
| 6. Transmission | Belt-driven                | Belt-driven                |
| 7. Motor Speed  | 3450                       | 3450                       |
| 8. Insulation   | F                          | F                          |

#### Starter Data

|         |                  |                  |
|---------|------------------|------------------|
| 1. Type | Magnetic starter | Magnetic starter |
|---------|------------------|------------------|

#### Physical Data

|                           |          |          |
|---------------------------|----------|----------|
| 1a. Length (est.)         | 23.0     | 27.0     |
| 1b. Width (est.)          | 28.0     | 31.0     |
| 1c. Height (est.)         | 70.0     | 69.0     |
| 2. Shipping weight (est.) | 327      | 381      |
| 3. Tank Size              | 60       | 80       |
| 4. Tank Layout            | Vertical | Vertical |

#### Additional Requirements

|                          |    |    |
|--------------------------|----|----|
| 1. Sound level @ 1 Meter | 74 | 74 |
|--------------------------|----|----|

|                       |        |        |
|-----------------------|--------|--------|
| 2. Pump Life          | 50,000 | 50,000 |
| 3. Duty Cycle         | 100%   | 100%   |
| 4. MIN Operating Temp | 32°    | 32°    |
| 5. MAX Operating Temp | 104°   | 104°   |

| AR7.5 80GV                 | AR7.5 80GV PKG             | Units  |
|----------------------------|----------------------------|--------|
| Two-Stage                  | Two-Stage                  |        |
| 2                          | 2                          |        |
| 175                        | 175                        | psi(g) |
| 14.7                       | 14.7                       | psi(g) |
| 68°                        | 68°                        | °F     |
| 36                         | 36                         | %      |
| 25.2                       | 25.2                       | cfm    |
| 22.2                       | 22.2                       | cfm    |
| 1372                       | 1372                       | rpms   |
| T39                        | T39                        |        |
| 5                          | 5                          | hp     |
| Induction                  | Induction                  |        |
| ODP std; TEFC opt          | ODP std; TEFC opt          |        |
| 60                         | 60                         | hz     |
| 230/1, 200/3, 230/3, 460/3 | 230/1, 200/3, 230/3, 460/3 | V/PH   |
| Belt-driven                | Belt-driven                |        |
| 3450                       | 3450                       | rpms   |
| F                          | F                          |        |
| Magnetic starter           | Magnetic starter           |        |
| 24.0                       | 24.0                       | inches |
| 39.0                       | 39.0                       | inches |
| 77.0                       | 77.0                       | inches |
| 457                        | 460                        | lbs    |
| 80                         | 80                         | gals   |
| Vertical                   | Vertical                   |        |
| 83                         | 83                         | dBA    |

|        |        |     |
|--------|--------|-----|
| 50,000 | 50,000 | hrs |
| 100%   | 100%   |     |
| 32°    | 32°    | °F  |
| 104°   | 104°   | °F  |