Ingersoll Rand
Industrial Technologies

Ingersoll Rand Industrial Technologies provides products, services and solutions that enhance our customers' energy efficiency, productivity and operations. Our diverse and innovative products range from complete compressed air systems, tools and pumps to material and fluid handling systems and environmentally friendly microturbines. We also enhance productivity through solutions created by Club Car®, the global leader in golf and utility vehicles for businesses and individuals.

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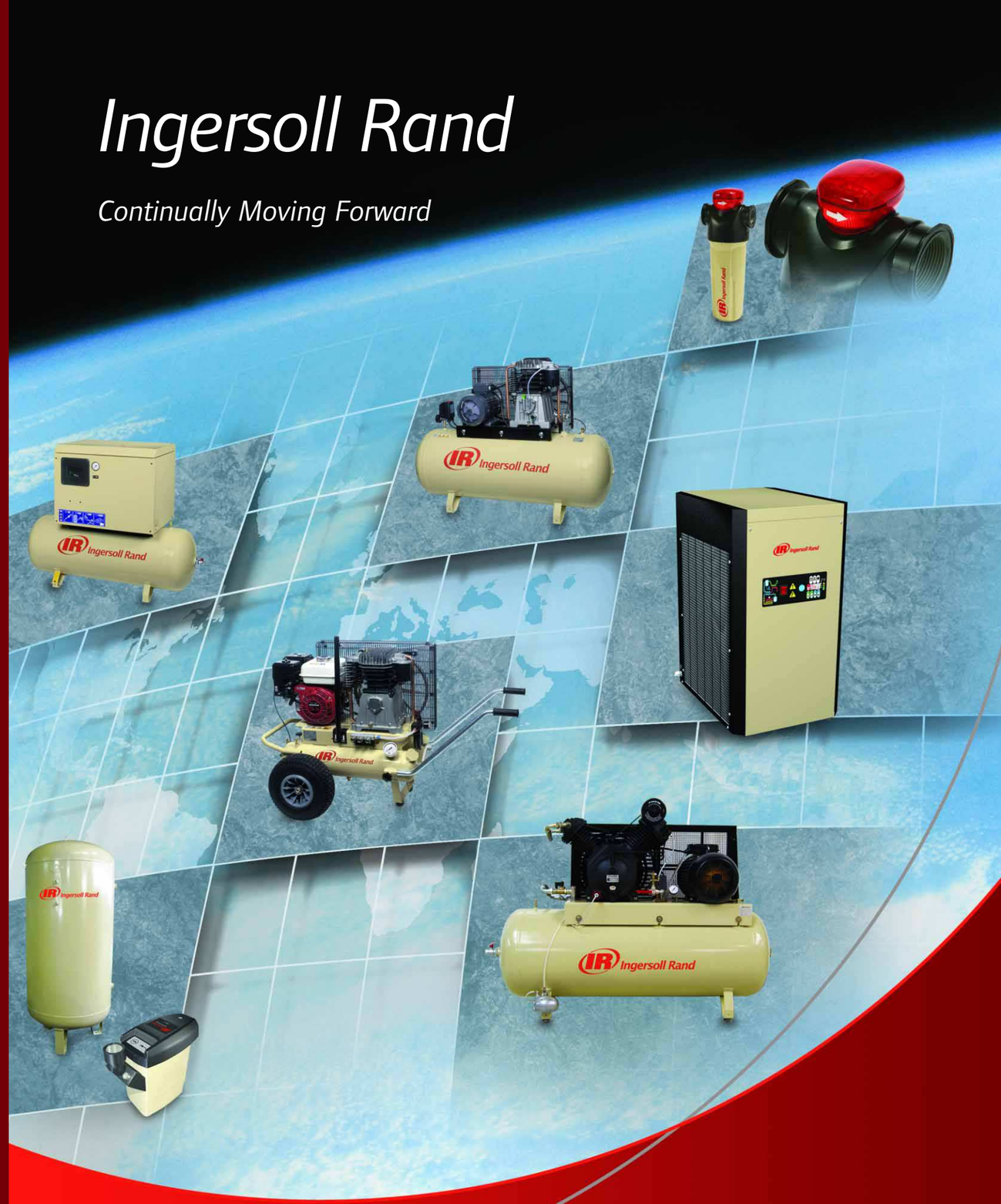
# Ingersoll Rand

*Continually Moving Forward*




Ingersoll Rand
Industrial Technologies

# Air Solutions

*Ingersoll Rand Leadership - For over 100 years, Ingersoll Rand have been a world leader in air compressors and air system accessories. We understand the needs and requirements for air systems and the business demands that are faced every day. Higher energy costs and reduced margins require increased reliability and efficiency from not only your air compressor, but also from your entire air system.*

# Global Reach, Local Service

*Ingersoll Rand provides its products and services directly or through distributors to customers in close to 200 countries.*

Ingersoll Rand maintains offices, warehouse and customer centres throughout the world.

Ingersoll Rand focuses on providing innovation to increase your productivity and profitability. Expect more with Ingersoll Rand.

**We are your total solutions provider.**

## *Small Reciprocating Compressors and Air Treatment*

Simply stated, your air system is much more than just an air compressor – it is the complete system; the piping, filters, dryers, drains, hoses, valves and point-of-use tools. It all needs to work at peak efficiency, with the quality and reliability to service your needs.

### Ingersoll Rand Compressors

Ingersoll Rand small reciprocating compressors deliver air through two main technologies:

- Compressors that fit perfectly in light duty applications such as DIY, small workshops and general maintenance, would use an aluminum pump, where simplicity and flexibility are the main requirements.
- Compressors which are designed for heavy industrial applications, such as automotive, manufacturing or construction would use a cast iron pump, where reliability and efficiency are the important issues.

### Ingersoll Rand Air Treatment Equipment

There are several harmful effects of contaminants in compressed air which can affect the production efficiency (pressure losses, spoilt product, down-time). For this reason, Ingersoll Rand has designed a specific range of air treatment components to provide clean, dry compressed air.

This wide range of air treatment equipment includes: refrigerated and desiccant dryers, receivers and air filtration.

# Reciprocating Compressors

*Ingersoll Rand is pleased to introduce its range of small reciprocating compressors designed for home use, contractor and semi-professional type applications.*

## The Range

The portable direct drive reciprocating compressors are available in 1.1 and 1.5 kW configurations, with a choice of receiver size and are designed for light duty applications such as hobby craft and Do-It-Yourself.

The reciprocating belt drive units are available up to 3.0 kW in a portable configuration and from 4.0 to 7.5 kW in a fixed configuration, and are designed for intermittent duty applications such as roofing, framing, painting, carpentry and general maintenance requirements.

The belt drive compressors include cast iron cylinders, a balanced belt wheel for smoother running and TEFV motors are fitted on all units, with again a choice of receiver sizes for additional capacitance.

## Why Ingersoll Rand Compressor?

For over 100 years we have been offering a customer-focused approach to providing you with the correct compressor to match your exact requirements.

With our small reciprocating range, we recognise the benefits of utilising cast iron cylinders over aluminium, in that they provide a more durable, robust product and increase the reliability of the offering to your customer.

The high thermal stability of Cast Iron and the fully skirt pistons add to the offering by providing better sealing and therefore greater efficiency.

Ingersoll Rand compressors meet all the requirements of European standards, with regards to safety and Ingersoll Rand is committed to providing you and your customer an offering of the highest quality, that will provide greater value for money.



*All Units - These compressors have auto start/stop regulation pressure switches, a receiver pressure gauge and come complete with a factory fill of lubricant.*

## Direct Drive Portable Receiver Unit

- Full skirt piston with three piston rings
- Pressure regulator with gauge at discharge
- Safety Relief Valve and Check Valve fitted
- Quick release fitting on discharge regulator
- Fitted with power lead

## Belt Drive Portable Receiver Unit

- Twin Cylinder single stage pump units
- Pressure regulator with gauge at discharge
- Includes wheel kit and manoeuvring handle
- Quick release fitting on discharge regulator
- Safety Relief Valve and Check Valve fitted

## Belt Drive Fixed Receiver Unit

- Twin Cylinder two stage pump units
- Inlet air filter
- Safety Relief Valve fitted

## Specifications

| Model | Motor kW | Motor hp | Pressure Max bar g | Pressure Max psig | Receiver Litres | Electrics 50 Hz | Starter | Piston Displacement l/min | Piston Displacement cfm | Dimensions mm Width | Dimensions mm Length | Dimensions mm Height | Weight Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Direct Drive Portable Receiver Units** | | | | | | | | | | | | | |
| PD1.1-24-1 | 1.1 | 1.5 | 8 | 116 | 24 | 230/1 | P/Switch | 190 | 6.7 | 280 | 580 | 590 | 23 |
| PD1.1-50-1 | 1.1 | 1.5 | 8 | 116 | 50 | 230/1 | P/Switch | 190 | 6.7 | 370 | 750 | 670 | 32 |
| PD1.5-24-1 | 1.5 | 2.0 | 8 | 116 | 24 | 230/1 | P/Switch | 230 | 8.1 | 280 | 580 | 590 | 23 |
| PD1.5-50-1 | 1.5 | 2.0 | 8 | 116 | 50 | 230/1 | P/Switch | 230 | 8.1 | 370 | 750 | 670 | 32 |
| PD1.5-100-1 | 1.5 | 2.0 | 8 | 116 | 100 | 230/1 | P/Switch | 230 | 8.1 | 440 | 960 | 760 | 45 |
| **Belt Drive Portable Receiver Units** | | | | | | | | | | | | | |
| PB1.5-50-1 | 1.5 | 2.0 | 10 | 145 | 50 | 230/1 | P/Switch | 250 | 8.8 | 410 | 1060 | 690 | 50 |
| PB1.5-50-3 | 1.5 | 2.0 | 10 | 145 | 50 | 400/3 | P/Switch | 250 | 8.8 | 410 | 1060 | 690 | 50 |
| PB1.5-100-1 | 1.5 | 2.0 | 10 | 145 | 100 | 230/1 | P/Switch | 250 | 8.8 | 440 | 1000 | 830 | 62 |
| PB1.5-100-3-230 | 1.5 | 2.0 | 10 | 145 | 100 | 230/3 | P/Switch | 250 | 8.8 | 440 | 1000 | 830 | 62 |
| PB1.5-100-3 | 1.5 | 2.0 | 10 | 145 | 100 | 400/3 | P/Switch | 250 | 8.8 | 440 | 1000 | 830 | 62 |
| PB2.2-100-1 | 2.2 | 3.0 | 10 | 145 | 100 | 230/1 | P/Switch | 350 | 12.4 | 440 | 1000 | 830 | 64 |
| PB2.2-200-1 | 2.2 | 3.0 | 10 | 145 | 200 | 230/1 | P/Switch | 350 | 12.4 | 450 | 1460 | 900 | 102 |
| PB2.2-200-3 | 2.2 | 3.0 | 10 | 145 | 200 | 400/3 | P/Switch | 350 | 12.4 | 450 | 1460 | 900 | 102 |
| PB3-200-3 | 3.0 | 4.0 | 10 | 145 | 200 | 400/3 | P/Switch | 400 | 14.1 | 450 | 1460 | 900 | 102 |
| PB3-270-3 | 3.0 | 4.0 | 10 | 145 | 270 | 400/3 | P/Switch | 400 | 14.1 | 500 | 1500 | 970 | 146 |
| **Belt Drive Fixed Receiver Units** | | | | | | | | | | | | | |
| PB4-200-3 | 4.0 | 5.5 | 10 | 145 | 200 | 400/3 | DOL | 600 | 21.2 | 450 | 1460 | 960 | 135 |
| PB4-270-3-230 | 4.0 | 5.5 | 10 | 145 | 270 | 230/3 | DOL | 600 | 21.2 | 500 | 1500 | 1100 | 145 |
| PB4-270-3 | 4.0 | 5.5 | 10 | 145 | 270 | 400/3 | DOL | 600 | 21.2 | 500 | 1500 | 1100 | 145 |
| PB4-500-3 | 4.0 | 5.5 | 10 | 145 | 500 | 400/3 | DOL | 600 | 21.2 | 590 | 1970 | 1300 | 240 |
| PB5.5-270-3 | 5.5 | 7.5 | 10 | 145 | 270 | 400/3 | DOL | 830 | 29.3 | 500 | 1500 | 1100 | 152 |
| PB5.5-500-3 | 5.5 | 7.5 | 10 | 145 | 500 | 400/3 | DOL | 830 | 29.3 | 590 | 1970 | 1300 | 255 |
| PB7.5-500-3 | 7.5 | 10.0 | 10 | 145 | 500 | 400/3 | DOL | 912 | 32.2 | 590 | 1970 | 1300 | 260 |

(P/Switch = Pressure Switch)

# *Silenced and Petrol Reciprocating Compressors*

*The PS Series is the Ingersoll Rand fully enclosed silent reciprocating compressor package, that allows you to place the compressor closer to the point of use.*

The range has reduced noise levels of between 63 dB(A) and 69 dB(A), by having sound reduced lined panels and the elimination of any unwanted vibrations, resulting in less restrictions to the compressor location in light industrial applications.

The outcome is a compressor offering that is substantially quieter than the non-enclosed equivalent, which has a positive effect on both the operator and also the environment.

With the addition of an option for receiver mounted all through the range and also a S/D Starter (4 to 7.5 kW) and an integrated refrigeration dryer (5.5 & 7.5 kW), Ingersoll Rand really can provide the solution to your silenced, compressed air needs and ease the installation.

## Standard Features

- Inlet air filter
- Auto Start and Stop regulation by pressure switch
- Twin Cylinder Aluminum pump unit
- IP54 TEFV Motor
- DOL, with Star/Delta Starter option (4 to 7.5 kW)
- Factory-fill of lubricant

## Petrol Engine Unit

Ingersoll Rand portable, petrol driven reciprocating air compressors are perfect for applications where there is no electric power supply available such as agricultural, building or leisure industries.

The units are equipped with large all-terrain tyres making it easier to move them around on uneven ground. The wide-track gauge also facilitates their transport in difficult environments.

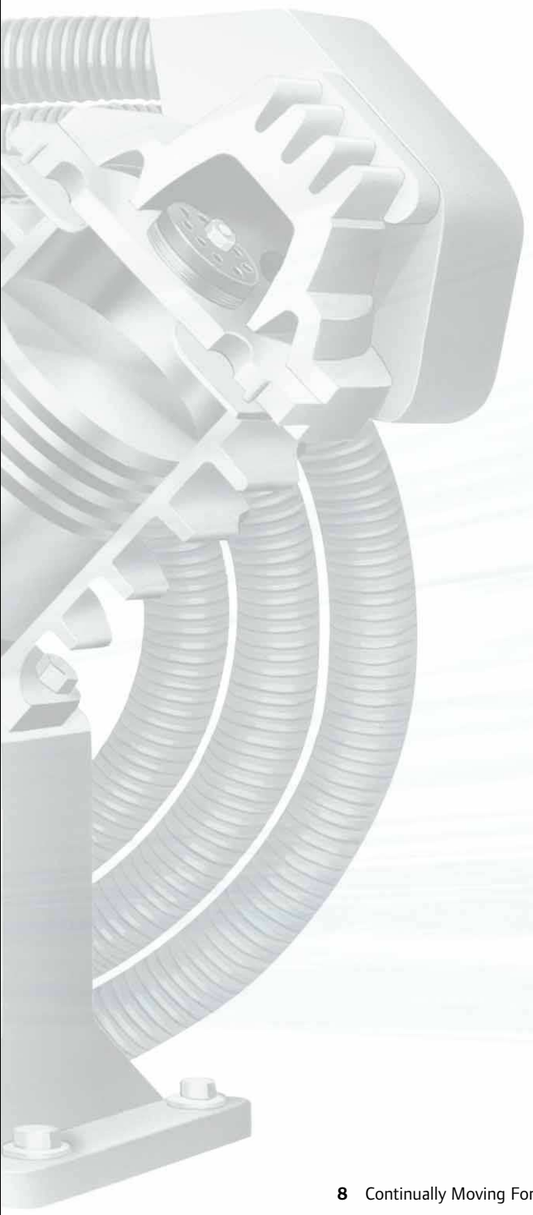
Both models (4.0 & 6.7 kW) come equipped with a Honda petrol engine and a pressure regulator/filter.

## Specifications

| Model | Motor kW | Motor hp | Pressure Max bar g | Pressure Max psig | Receiver Litres | Electrics 50 Hz | Starter | Piston Displacement l/min | Piston Displacement cfm | Dimensions mm Width | Dimensions mm Length | Dimensions mm Height | Weight Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Silenced Belt Drive Units** | | | | | | | | | | | | | |
| PS1.5-24-1 | 1.5 | 2.0 | 10 | 145 | 24 | 230/1 | DOL | 250 | 8.8 | 490 | 610 | 690 | 100 |
| PS1.5-24-3 | 1.5 | 2.0 | 10 | 145 | 24 | 400/3 | DOL | 250 | 8.8 | 490 | 610 | 690 | 100 |
| PS2.2-24-1 | 2.2 | 3.0 | 10 | 145 | 24 | 230/1 | DOL | 350 | 12.4 | 490 | 610 | 690 | 102 |
| PS2.2-24-3 | 2.2 | 3.0 | 10 | 145 | 24 | 400/3 | DOL | 350 | 12.4 | 490 | 610 | 690 | 102 |
| PS3-270-3 | 3.0 | 4.0 | 10 | 145 | 270 | 400/3 | DOL | 450 | 15.9 | 600 | 1500 | 1220 | 190 |
| PS3-3 | 3.0 | 4.0 | 10 | 145 | - | 400/3 | DOL | 450 | 15.9 | 590 | 840 | 740 | 125 |
| PS3-3-230 | 3.0 | 4.0 | 10 | 145 | - | 230/3 | DOL | 450 | 15.9 | 590 | 840 | 740 | 125 |
| PS4-270-3 | 4.0 | 5.5 | 10 | 145 | 270 | 400/3 | DOL | 625 | 22.1 | 600 | 1500 | 1220 | 215 |
| PS4-3 | 4.0 | 5.5 | 10 | 145 | - | 400/3 | DOL | 625 | 22.1 | 590 | 840 | 740 | 160 |
| PS4-3SD | 4.0 | 5.5 | 10 | 145 | - | 400/3 | Star Delta | 625 | 22.1 | 590 | 840 | 740 | 160 |
| PS5.5-3 | 5.5 | 7.5 | 10 | 145 | - | 400/3 | DOL | 777 | 27.4 | 590 | 840 | 740 | 170 |
| PS5.5-3SD | 5.5 | 7.5 | 10 | 145 | - | 400/3 | Star Delta | 777 | 27.4 | 590 | 840 | 740 | 170 |
| PS5.5-270-3 | 5.5 | 7.5 | 10 | 145 | 270 | 400/3 | DOL | 777 | 27.4 | 600 | 1500 | 1220 | 230 |
| PS5.5-270-3-D | 5.5 | 7.5 | 10 | 145 | 270 | 400/3 | DOL | 777 | 27.4 | 6000 | 2000 | 1330 | 340 |
| PS7.5-3SD | 7.5 | 10.0 | 10 | 145 | - | 400/3 | Star Delta | 912 | 32.2 | 590 | 840 | 740 | 170 |
| PS7.5-500-3SD | 7.5 | 10.0 | 10 | 145 | 500 | 400/3 | Star Delta | 912 | 32.2 | 6000 | 2000 | 1330 | 305 |
| PS7.5-500-3SD-D | 7.5 | 10.0 | 10 | 145 | 500 | 400/3 | Star Delta | 912 | 32.2 | 6000 | 2000 | 1330 | 340 |
| **Petrol Engine Units** | | | | | | | | | | | | | |
| PP4-11X2 | 4.0 | 5.5 | 10 | 145 | 11+11 | - | - | 500 | 17.7 | 700 | 820 | 790 | 85 |
| PP7-17X2 | 6.7 | 9.0 | 10 | 145 | 17+17 | - | - | 670 | 23.7 | 770 | 1070 | 890 | 108 |

# Type 30 Reciprocating Compressors

*The Ingersoll Rand Type 30 was introduced in 1929 and is still one of the world leaders in heavy duty applications, where reliability, efficiency, durability and maintenance are of paramount importance to the customer.*



## 2-Stage Lubricated

Designed for heavy shop or industrial use, such as automotive service and body shops, machine shops, construction, car washes and manufacturing lines, Ingersoll Rand's T30 2-stage lubricated compressors, with their cast iron cylinders, provide the quality and performance that are required in these applications.

The T30 2-stage lubricated range comprises of Value and Premium packages, making choosing the correct machine and configuration even easier to suit your customer's requirements. Both packages come in either an 11 bar g receiver mounted or 14 bar g base-mounted configuration.

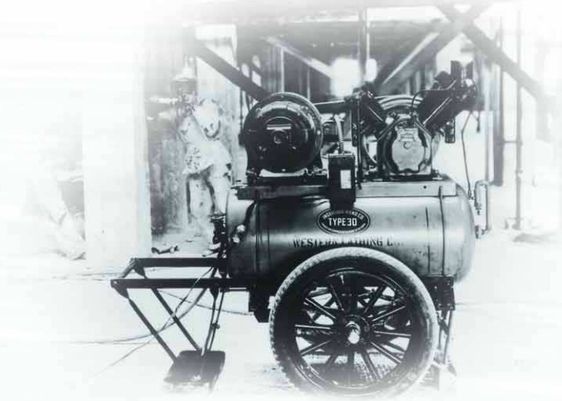
The Value package provides an economic and dependable solution for those customers simply focused on a reliable compressed air solution and is ideal for commercial, automotive and light industrial applications.

The Premium package enhances durability and performance by offering all the features of the Value package plus a number of additional features that provide increased reliability, lower maintenance and an overall higher quality of performance. The additional features include an air-cooled aftercooler, low oil level switch and an auto-condensate drain (on receiver mounted units) that make the Premium package ideally suited for manufacturing and more heavy duty industrial applications.

**Specifications**

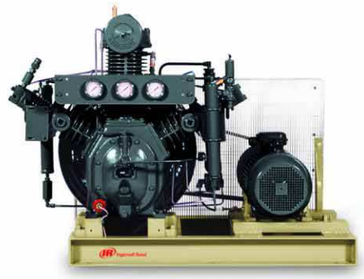
| Model | Motor kW | Motor hp | Pressure Max bar g | Receiver Litres | Piston Displacement l/min | Piston Displacement cfm | Dimensions cm L x W x H | Weight kg |
|---|---|---|---|---|---|---|---|---|
| **Value Package** | | | | | | | | |
| T30/200/3 V | 2.2 | 3.0 | 11 | 200 | 290 | 10.2 | 162 x 68 x 122 | 140 |
| T30/X/3 V | 2.2 | 3.0 | 14 | - | 290 | 10.2 | 125 x 80 x 85 | 90 |
| T30/200/4 V | 3.0 | 4.0 | 11 | 200 | 387 | 13.7 | 162 x 68 x 122 | 145 |
| T30/X/4 V | 3.0 | 4.0 | 14 | - | 362 | 12.8 | 125 x 80 x 85 | 95 |
| T30/200/5.5 V | 4.0 | 5.5 | 11 | 200 | 523 | 18.5 | 162 x 68 x 122 | 170 |
| T30/X/5.5 V | 4.0 | 5.5 | 14 | - | 523 | 18.5 | 125 x 80 x 85 | 115 |
| T30/200/7.5 V | 5.5 | 7.5 | 11 | 200 | 702 | 24.8 | 162 x 68 x 122 | 180 |
| T30/X/7.5 V | 5.5 | 7.5 | 14 | - | 657 | 23.2 | 125 x 80 x 85 | 135 |
| T30/200/10 V | 7.5 | 10.0 | 11 | 200 | 1013 | 35.8 | 162 x 80 x 145 | 235 |
| T30/X/10 V | 7.5 | 10.0 | 14 | - | 1013 | 35.8 | 125 x 80 x 85 | 185 |
| T30/500/15 V | 11.0 | 15.0 | 11 | 500 | 1441 | 50.9 | 210 x 90 x 165 | 425 |
| T30/X/15 V | 11.0 | 15.0 | 14 | - | 1292 | 45.6 | 155 x 85 x 110 | 295 |
| T30/500/20 V | 15.0 | 20.0 | 11 | 500 | 1713 | 60.5 | 210 x 90 x 165 | 435 |
| T30/X/20 V | 15.0 | 20.0 | 14 | - | 1713 | 60.5 | 155 x 85 x 110 | 300 |
| T30/500/25 V | 18.5 | 25.0 | 11 | 500 | 2620 | 92.5 | 210 x 90 x 165 | 580 |
| T30/X/25 V | 18.5 | 25.0 | 14 | - | 2620 | 92.5 | 155 x 85 x 110 | 460 |
| T30/500/30 V | 22.0 | 30.0 | 11 | 500 | 2932 | 103.5 | 210 x 90 x 165 | 600 |
| T30/X/30 V | 22.0 | 30.0 | 14 | - | 2932 | 103.5 | 155 x 85 x 110 | 480 |
| **Premium Package** | | | | | | | | |
| T30/200/3 P | 2.2 | 3.0 | 11 | 200 | 290 | 10.2 | 162 x 78 x 122 | 180 |
| T30/X/3 P | 2.2 | 3.0 | 14 | - | 290 | 10.2 | 125 x 95 x 85 | 130 |
| T30/200/4 P | 3.0 | 4.0 | 11 | 200 | 387 | 13.7 | 162 x 78 x 122 | 195 |
| T30/X/4 P | 3.0 | 4.0 | 14 | - | 362 | 12.8 | 125 x 95 x 85 | 145 |
| T30/200/5.5 P | 4.0 | 5.5 | 11 | 200 | 523 | 18.5 | 162 x 68 x 122 | 220 |
| T30/X/5.5 P | 4.0 | 5.5 | 14 | - | 523 | 18.5 | 125 x 95 x 85 | 165 |
| T30/200/7.5 P | 5.5 | 7.5 | 11 | 200 | 702 | 24.8 | 162 x 68 x 122 | 230 |
| T30/X/7.5 P | 5.5 | 7.5 | 14 | - | 657 | 23.2 | 125 x 95 x 85 | 185 |
| T30/200/10 P | 7.5 | 10.0 | 11 | 200 | 1013 | 35.8 | 162 x 80 x 145 | 300 |
| T30/X/10 P | 7.5 | 10.0 | 14 | - | 1013 | 35.8 | 125 x 95 x 85 | 250 |
| T30/500/15 P | 11.0 | 15.0 | 11 | 500 | 1441 | 50.9 | 210 x 90 x 165 | 500 |
| T30/X/15 P | 11.0 | 15.0 | 14 | - | 1292 | 45.6 | 155 x 100 x 110 | 370 |
| T30/500/20 P | 15.0 | 20.0 | 11 | 500 | 1713 | 60.5 | 210 x 90 x 165 | 510 |
| T30/X/20 P | 15.0 | 20.0 | 14 | - | 1713 | 60.5 | 155 x 100 x 110 | 375 |
| T30/500/25 P | 18.5 | 25.0 | 11 | 500 | 2620 | 92.5 | 210 x 90 x 165 | 655 |
| T30/X/25 P | 18.5 | 25.0 | 14 | - | 2620 | 92.5 | 155 x 100 x 110 | 535 |
| T30/500/30 P | 22.0 | 30.0 | 11 | 500 | 2932 | 103.5 | 210 x 90 x 165 | 675 |
| T30/X/30 P | 22.0 | 30.0 | 14 | - | 2932 | 103.5 | 155 x 100 x 110 | 555 |

*Totally dependable in the most demanding and exacting environments.*



## High Pressure

The Ingersoll Rand T30 high pressure units, used in industries such as refuelling stations, beverage plants, power stations and engine starting, are a series of base-mounted piston compressors that can provide your customer with pressures as high as 345 bar g. Consistent with the 2-stage lubricated range, the high pressure units offer reliability, durability and ease of maintenance.



### Specifications

| Model | Bare Unit | Motor kW | Motor hp | Pressure Max bar g | Receiver Litres | Piston Displacement l/min | Revolutions per minute rpm | Dimensions L x W x H cm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|
| **High Pressure** | | | | | | | | | |
| 231X30 | 231 | 2.2 | 3.0 | 35 | N/A | 211 | 670 | 87 x 51 x 51 | 100 |
| 7T2X100 | 7T2 | 8.5 | 12.5 | 35 | N/A | 1050 | 820 | 124 x 67 x 84 | 275 |
| 15T2X200-35 | 15T2 | 15 | 20 | 35 | N/A | 1471 | 950 | 143 x 84 x 87 | 415 |
| 15T2X200-70 | 15T2 | 15 | 20 | 70 | N/A | 1230 | 790 | 143 x 84 x 87 | 415 |
| 15T4X200 | 15T4 | 15 | 20 | 241 | N/A | 988 | 930 | 150 x 78 x 108 | 505 |
| H15T4X200 | H15T4 | 15 | 20 | 345 | N/A | 988 | 930 | 150 x 78 x 108 | 525 |

## Oil-less

Ingersoll Rand T30 Oil-less compressors are designed for the tough requirements of industries demanding oil-free air such as pharmaceuticals, electronics, medical and food processing. T30 Oil-less compressors do not have oil in the system and cooling is carried out by using special materials, ensuring 100% oil-free air for your customers application. The higher investment costs of an Oil-less compressor are repaid due to the lower running costs of the complete compression system, including maintenance, supervision and also during operation, with downtime virtually eliminated. T30 Oil-less compressors are available in both receiver mounted and base-mounted configurations.

### Specifications

| Model | Bare Unit | Motor kW | Motor hp | Pressure Max bar g | Receiver Litres | Piston Displacement l/min | Revolutions per minute rpm | Dimensions L x W x H cm |
|---|---|---|---|---|---|---|---|---|
| **Oil-less** | | | | | | | | |
| OL5F55 | OL5 | 4.0 | 5.5 | 8.6 | 270 | 690 | 820 | 146 x 64 x 112 |
| OL5X55 | OL5 | 4.0 | 5.5 | 8.6 | - | 690 | 820 | 106 x 54 x 59 |
| OL5F75 | OL5 | 5.5 | 7.5 | 8.6 | 270 | 930 | 1100 | 146 x 64 x 112 |
| OL5X75 | OL5 | 5.5 | 7.5 | 8.6 | - | 930 | 1100 | 106 x 54 x 59 |
| OL10H100 | OL10 | 7.5 | 10 | 8.6 | 500 | 1430 | 1135 | 187 x 70 x 129 |
| OL10X100 | OL10 | 7.5 | 10 | 8.6 | - | 1430 | 1135 | 128 x 66 x 65 |
| OL15H200 | OL15 | 15 | 20 | 8.6 | 500 | 1900 | 945 | 187 x 70 x 129 |
| OL15X200 | OL15 | 15 | 20 | 8.6 | - | 1900 | 945 | 128 x 66 x 65 |
| OL25VH300 | OL25 | 22 | 30 | 8.6 | 500 | 3300 | 1100 | 220 x 115 x 216 |
| OL25X300 | OL25 | 22 | 30 | 8.6 | - | 3300 | 1100 | 185 x 94 x 116 |



## Non-lubricated

Ingersoll Rand T30 Non-lubricated piston compressors, used in industries such as textiles, packaging and chemical, do not have oil in the cylinders and are designed for applications where air free from oil is required. The non-lubricated units use Teflon rings and rider bands to achieve cooling in the compression area. The T30 non-lubricated compressor is available in both receiver mounted and base-mounted configurations.

### Specifications

| Model | Bare Unit | Motor kW | Motor hp | Pressure Max bar g | Receiver Litres | Piston Displacement l/min | Revolutions per minute rpm | Dimensions L x W x H cm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|
| **Non-lubricated** | | | | | | | | | |
| 23ANLE20 | 23ANL | 1.5 | 2.0 | 6.9 | 200 | 230 | 730 | 137 x 51 x 108 | 170 |
| 235HNLE30 | 235HNL | 2.2 | 3.0 | 6.9 | 200 | 310 | 490 | 143 x 54 x 107 | 210 |
| 235HNLF40 | 235HNL | 3.0 | 4.0 | 6.9 | 270 | 450 | 710 | 146 x 54 x 111 | 232 |
| 5T2NLH100 | 5T2NL | 7.5 | 10 | 8.6 | 500 | 1010 | 900 | 187 x 63 x 153 | 475 |
| 10T3NLH150 | 10T3NL | 11 | 15 | 8.6 | 500 | 1500 | 670 | 187 x 69 x 192 | 615 |
| 10T3NLH200 | 10T3NL | 15 | 20 | 8.6 | 500 | 2000 | 890 | 187 x 69 x 192 | 630 |
| 23ANLX20 | 23ANL | 1.5 | 2.0 | 6.9 | N/A | 230 | 730 | 80 x 48 x 59 | 84 |
| 235HNLX30 | 235HNL | 2.2 | 3.0 | 6.9 | N/A | 310 | 490 | 92 x 56 x 58 | 127 |
| 235HNLX40 | 235HNL | 3.0 | 4.0 | 6.9 | N/A | 450 | 710 | 92 x 56 x 58 | 127 |
| 5T2NLX55 | 5T2NL | 4.0 | 5.5 | 8.6 | N/A | 640 | 570 | 128 x 63 x 82 | 227 |
| 5T2NLX100 | 5T2NL | 7.5 | 10 | 8.6 | N/A | 1010 | 900 | 128 x 63 x 82 | 252 |
| 10T3NLX150 | 10T3NL | 11 | 15 | 8.6 | N/A | 1500 | 670 | 154 x 79 x 115 | 360 |
| 10T3NLX200 | 10T3NL | 15 | 20 | 8.6 | N/A | 2000 | 890 | 154 x 79 x 115 | 380 |

## Vacuum

Ingersoll Rand T30 Vacuum compressors are designed for vacuum applications such as food packaging, processing plants, vacuum cleaning and printing industries.

A maximum vacuum of over 99% (754 mm Hg) is available with these units, depending on customer requirements. Units are available in a base-mounted configuration only.

### Specifications

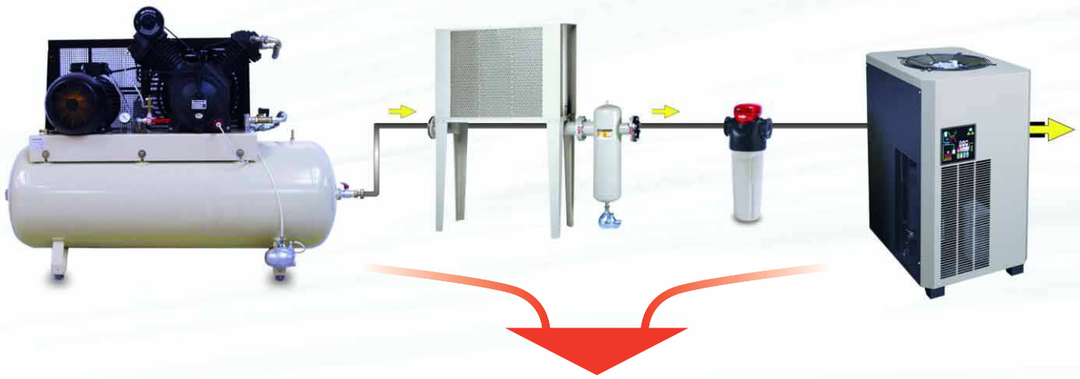
| Model | Bare Unit | Motor kW | Motor hp | Vacuum Max mm Hg | Vacuum Max bar g | Receiver Displacement Litres | Piston per minute l/min | Revolutions L x W x H rpm | Dimensions cm | Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|
| **Vacuum** | | | | | | | | | | |
| V235X20 | V235 | 1.5 | 2.0 | 737 | 97.0 | - | 510 | 790 | 83 x 46 x 48 | 95 |
| V235TX20 | V235T | 1.5 | 2.0 | 752 | 98.9 | - | 255 | 790 | 83 x 46 x 48 | 95 |
| V244X30 | V244 | 2.2 | 3.0 | 737 | 97.0 | - | 900 | 790 | 88 x 56 x 53 | 148 |
| V244TX30 | V244T | 2.2 | 3.0 | 753 | 99.1 | - | 450 | 790 | 88 x 56 x 53 | 148 |
| V255X55 | V255 | 4.0 | 5.5 | 737 | 97.0 | - | 1730 | 770 | 92 x 63 x 61 | 173 |
| V255TX55 | V255T | 4.0 | 5.5 | 754 | 99.2 | - | 870 | 770 | 92 x 63 x 61 | 173 |
| 7VX75 | 7V | 5.5 | 7.5 | 737 | 97.0 | - | 2800 | 900 | 122 x 65 x 72 | 260 |
| 7VTX75 | 7VT | 5.5 | 7.5 | 753 | 99.1 | - | 1400 | 900 | 122 x 65 x 72 | 260 |
| 15VX100 | 15V | 7.5 | 10 | 742 | 97.0 | - | 3600 | 770 | 137 x 79 x 88 | 325 |
| 15VTX100 | 15VT | 7.5 | 10 | 754 | 99.2 | - | 2400 | 770 | 137 x 79 x 88 | 325 |

# *High Inlet Temperature Dryers*

*Providing clean, dry, compressed air is especially important in applications where moisture or contamination can cause system corrosion, damage to air-powered tools or degradation of products or processes touched by the compressed air.*

## High Inlet Temperature Models

Standard units are rated for 46°C ambient air conditions and are suited for most applications. These innovative High Inlet Temperature models are engineered to accept hot inlet compressed air up to 93°C and cools it to acceptable temperatures. The maximum operating conditions of these dryers make them the perfect match for applications with piston compressors providing high temperature compressed air.



## Designed for Worry-free Air Quality

Ingersoll Rand High Inlet Refrigerated Dryers make providing continuous dry air as easy as piping a self-contained unit into your compressed air supply line.



*Reliable, Quick and Easy Dry Air*

## Easy to install – Small footprint

By eliminating the need of aftercooler, these small-footprint units provide complete, affordable easy to install solutions for applications ranging from dry cleaning to auto body shops, to light processing and manufacturing applications.

## Integrated solution – Low pressure drop

This integrated solutions simplify dryer installation and the easy accessibility simplifies routine maintenance. Even more important, the pressure drop associated with these dryers is divided by three when comparing to a standard installation.

## High inlet temperature dryer includes:

- Aftercooler to handle inlet temperature up to 93°C.
- Particle 1 micron filter
- High efficiency compact heat exchangers and condensate separator's package.
- Electronic drain valve.
- Energy saving mode

## Control panel

Microprocessor to control and adjust dew point, condensate drain interval and duration, high temperature alarm, low temperature alarm, anti-freezing system and sensor failure.

*Lower system pressure drop = Reduced system running costs*

### Specifications

| Model | Class 6 < 10ºC Dew Point | | Class 5 < 7ºC Dew Point | | Class 4 < 3ºC Dew Point | | Nominal Power | Dimensions mm | | | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | $m^3$ /min FAD 20ºC | $m^3$ /hr FAD 20ºC | $m^3$ /min FAD 20ºC | $m^3$ /hr FAD 20ºC | $m^3$ /min FAD 20ºC | $m^3$ /hr FAD 20ºC | | Width | Length | Height | kg |
| **Aircooled-High Inlet Temperature** | | | | | | | | | | | |
| D25IT-A | 0.5 | 28.3 | 0.4 | 25.0 | 0.4 | 21.3 | 0.16 | 386 | 500 | 651 | 38 |
| D42IT-A | 0.8 | 47.5 | 0.7 | 42.0 | 0.6 | 35.7 | 0.27 | 386 | 500 | 651 | 39 |
| D60IT-A | 1.1 | 67.8 | 1.0 | 60.0 | 0.9 | 51.0 | 0.41 | 386 | 500 | 651 | 39 |
| D102IT-A | 1.9 | 115.3 | 1.7 | 102.0 | 1.4 | 86.7 | 0.41 | 420 | 567 | 771 | 57 |
| D140IT-A | 2.6 | 158.2 | 2.3 | 140.0 | 2.0 | 119.0 | 0.47 | 420 | 567 | 771 | 62 |
| D170IT-A | 3.2 | 192.1 | 2.8 | 170.0 | 2.4 | 144.5 | 0.61 | 420 | 567 | 771 | 67 |

Note: Data refers to the following conditions:
Pressure 7 bar g, Ambient Temperature 25°C, Air Inlet Temperature 66°C in accordance with ISO8573-1:2001 standards.

**Air Connections**
D25IT-A to D60IT-A 1/2"
D102IT-A to 170IT-A 3/4"

**Refrigerant Type : R134a**

**Maximum Inlet Temperature** = 93°C
**Maximum Ambient Temperature** = 50°C
**Maximum Working Pressure** = 14 bar g

# Vertical Air Receiver Tanks

*The receiver tank is central to many industrial applications. In factories using compressed air, the receiver tank helps deliver stable output of compressed air, serves as a buffer, collects moisture from cooled air and discharges it out of the system. The air tank also serves as an air manifold to guarantee air supply in peak hours.*

## Reliable heavy construction

The Ingersoll Rand vertical air receivers are designed for superior and reliable performance in a compressed air solution. Each receiver consists of carbon steel, welded simple pressure vessel, externally primed and completed with fitting kit comprising of manual drain valve, safety valve, pressure gauge and blanking plugs. These vertical air receivers also come with an electronic no loss drain valve as an option.

## International Certification

Vessels supplied with both a Certificate of Conformity and PED certification (according to the European directives CE 87/404 and CE 97/23) and complying with the ASME main international standards (AD 2000 Merkblatt, Australian Standard AS1210). Additionally each safety valve is supplied with a certification.

### Specifications

| Model | Capacity of Vessel Litres | Capacity of Vessel Feet³ | Weight kg | Maximum Working Pressure bar | Working Temperature Min °C | Working Temperature Max °C | Eye Bolt Qty |
|---|---|---|---|---|---|---|---|
| 11 Bar Vertical Receiver-500L | 500 | 17,7 | 165 | 11 | -10 | 100 | 1 |
| 12 Bar Vertical Receiver-1000L | 1000 | 35,3 | 398 | 12 | -10 | 50 | 1 |
| 12 Bar Vertical Receiver-1500L | 1500 | 53,0 | 620 | 12 | -10 | 50 | 2 |

## Electronic No loss Drain

The electronic drain valves are heavy-duty industrial drains that remove condensate without wasting compressed air. They operate on 230 V and are attached to the receiver. Finally the ENLs are small lightweight drains that are easy to install in dry and wet applications that have minimum available space. The drains are also low maintenance.

### Specifications

| Model | Performance m³/min Compressor | Performance m³/min Receiver | Performance m³/min Dryer | Performance m³/min Filter | Maximum Operating Pressure bar g | Maximum Operating Pressure psi g | Condensate Inlet Connection (inch) | Barbed Hose Connection (inch) |
|---|---|---|---|---|---|---|---|---|
| ENL 2 | 2.54 | 5.1 | 25.5 | 16 | 232 | 0.5 | 0.25 | |
| ENL 5 | 6.4 | 12.75 | 63.7 | 16 | 232 | 0.5 | 0.25 | |
| ENL 30 | 36.8 | 73.6 | 368 | 16 | 232 | 0.5 | 0.5 | |
| ENL 100 | 141.6 | 283.2 | 1416 | 16 | 232 | 0.75 | 0.5 | |
| ENL 2000 | 1416 | 2832 | 14160 | 16 | 232 | 1 | 0.5 | |
| ENL 6 HP | 8.5 | 17 | 85 | 63 | 915 | 0.5 | 0.5 | |
| ENL 30 HP | 42.5 | 85 | 425 | 50 | 725 | 0.5 | 0.5 | |



# Filters and Lubricant

*Ingersoll Rand air filters feature our new Element Replacement Indicator (ERI) – an illuminating approach to filter maintenance that yields real, measurable benefits for you, for your company and for our environment.*

With the Ingersoll Rand filters you will achieve a low overall air treatment pressure drop. Proactive servicing ensures that the cost of pressure drop is kept to the lowest possible level. Reactive costs more money and can affect your productivity. (See our Air Filtration Brochure for more details).

### Specifications

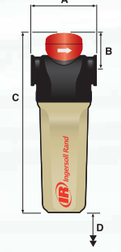
| Filter Grade A, G, H, D | Port Size BSPT in | Flow Rates 7 bar g/100 psig m³/min | Flow Rates 7 bar g/100 psig cfm | Dimensions A mm | Dimensions B mm | Dimensions C mm | Dimensions D mm | Weight kg |
|---|---|---|---|---|---|---|---|---|
| F35 I | 1/2" | 0.58 | 21 | 76 | 46 | 205 | 25 | 1 |
| F71 I | 3/4" | 1.18 | 42 | 98 | 53 | 261 | 32 | 1 |
| F108 I | 3/4" | 1.80 | 64 | 98 | 53 | 261 | 32 | 1 |
| F144 I | 1" | 2.40 | 85 | 129 | 61 | 290 | 38 | 2 |
| F178 I | 1" | 2.97 | 105 | 129 | 61 | 290 | 38 | 2 |
| F212 I | 1" | 3.53 | 125 | 129 | 61 | 290 | 38 | 2 |

**Grade A - Activated Carbon Filtration**
Oil vapour and hydrocarbon odour removal, providing a maximum remaining oil content of <0.003 mg/m³ (excluding methane) @ 21°C. (Precede with Grade H filter)

**Grade G - General Purpose Protection**
Particle removal down to 1 micron including coalesced liquid, water and oil, providing a maximum remaining oil aerosol content of 0.6 mg/m³ @ 21°C.

**Grade H - High Efficiency Oil Removal Filtration**
Particle removal down to 0.01 micron including water and oil aerosols, providing a maximum remaining oil aerosol content of 0.01 mg/m³ @ 21°C. (Precede with Grade G filter)

**Grade D - General Purpose Dust Filtration**
Dust particle removal down to 1 micron.




0.58-39.63 m³/min

**Maximum Operating Pressure**
17 bar g (250 psig) up to 39.63 m³/min
16 bar g (232 psig) above 39.63 m³/min

**Maximum Recommended Operating Temperatures**
Grade G, H & D = 80°C
Grade A = 30°C
**Minimum Recommended Operating Temperature** = 1°C

| Line | bar g | 1 | 2 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Pressure | psig | 15 | 29 | 44 | 73 | 100 | 131 | 160 | 189 | 218 | 232 | 250 |
| Correction Factors | | 0.38 | 0.53 | 0.65 | 0.85 | 1.00 | 1.13 | 1.25 | 1.36 | 1.46 | 1.51 | 1.56 |

## All Season Select®

All Season Select® lubricant is a synthetic, all-temperature blend that is designed to increase efficiency, reduce wear and prevent carbon buildup. It performs four times longer than petroleum-based lubricants. Recommended 2,000 hours of service between lubricant change-out under normal operating conditions.

Compatible with all our range of aluminium piston compressors.

- Specially formulated for T30 Cast Iron Value and Premium machines.
- Extended working life
- Reduced friction
- Eliminates carbon build-up
- Longer oil change intervals - 2000 hours or 2 years
- Greater fire resistance
- Excellent high temperature protection
- Easy start-up