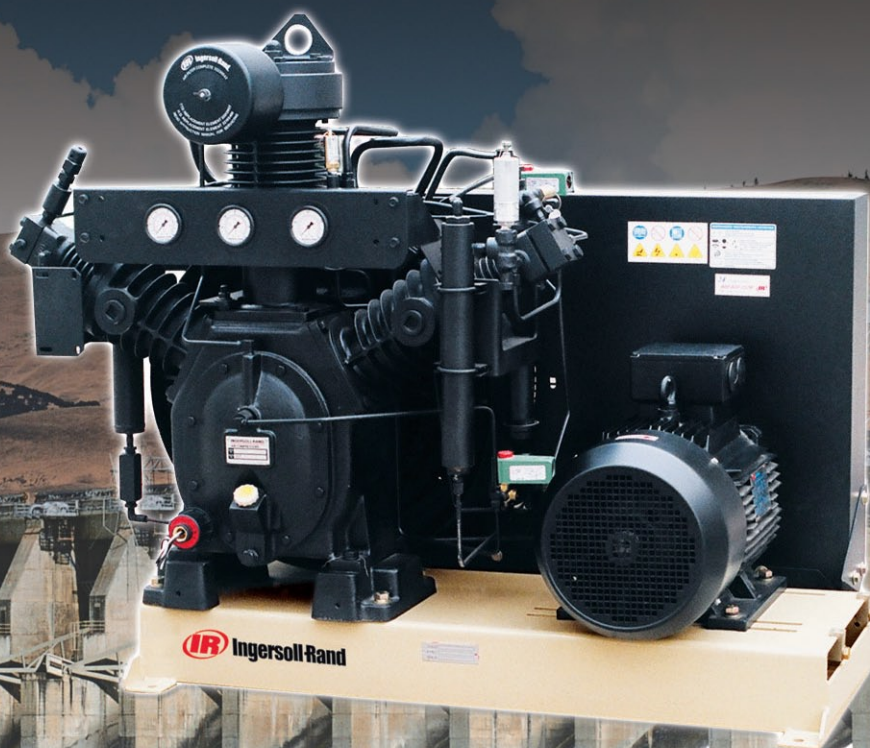


# **HIGH PRESSURE AIRCOOLED RECIPROCATING AIR COMPRESSORS**

**PREMIER HIGH PRESSURE SOLUTIONS  
FOR  
HIGH PRESSURE APPLICATIONS**



**IR Ingersoll Rand**

# PREMIER PACKAGE



## Standard Features

**Cast Iron Construction** – Cylinders and frame are designed with 100% cast iron for durability and long life.

**Cylinders** – Separately cast cylinders with deep fins allow for 360 degrees cooling, removing the heat of compression. Individually bolting of the cylinders to the frame facilitates inspection and maintenance.

**Centrifugal Unloader** – Automatically releases air from the intercoolers and cylinders, preventing the compressor from starting against full load.

**Intercoolers** – intercoolers are finned tube type located directly in the flywheel air blast.

**Aftercooler** – finned tube type aircooled aftercooler are located in the same area as the intercoolers and within the blast of air from flywheel.

Aftercooler provides discharge air temperature approximately 40 deg F above ambient.

**Flywheel** – the flywheel fan produces a “cyclone” air blast to cool the deep finned cylinders, intercoolers and aftercooler.

**Motor** – the electric motor is an IEC frame, totally enclosed fan cooled squirrel cage induction design, 1,500 rpm with a premier 1.15 service factor.

**Drive** – the vee-belt drive, with totally enclosed sheet metal beltguard, offers smooth operation in a premier package.

**Baseplate** – Heavy duty construction design includes a provision for motor movement to facilitate easy “V” belt tightening.

**Regulation** – All models are equipped with automatic stop and start control as standard. Constant speed control and dual control could be provided as options.

## Standard Accessories

**“Full-Time” low oil level protection switch** – This switch protects the compressor against low oil level in the crankcase. The compressor and electric motor are shutdown when the oil level becomes unsafe and cannot be restarted until oil is added to the desire level.

**Automatic condensate system** – Automatic condensate drain is supplied on the discharge separator / drain leg to automatically drain condensate when the compressor stop or unloads during constant speed control operation, or when the timer and solenoid valve interrupts the control air pressure during extended run times.

**High discharge air temperature protection switch (On PA package only)** – This switch with thermal sensor protects the compressor from operating above the maximum allowable discharge temperature. It shuts the compressor down when discharge air temperature exceed the predetermined set temperature.

**Inlet Solenoid Valve (On PA package only)** – enable the air compressor to load and unload at pre-determine pressure, preset on the pressure switch.





High pressure compressed air plays a critical role in the manufacturing of plastic bottles, jars, containers required by the Food & Beverage, Pharmaceutical Industry etc. Ingersoll Rand Type-30 "PETAIR" range of multistage high pressure air compressors have been specially designed for providing high pressure compressed air in PET blow moulding process for blowing bottles, jars etc. World wide "PETAIR" is the preferred choice of compressors for leading OEM's in the PET industry.

These T30 packages are available in single baseplate unit or multiple unit skid mounted configurations.



PA-15/30-FF

#### **Standard Scope of Supply Base plate mounted units**

- heavy duty cast iron pump
- low oil level shutdown switch
- interstage safety valves and pressure gauges
- discharge check valve & safety valve
- auto-condensate drain valve on separator legs
- efficient TEFC electric motor, IP54, 1.15 S.F
- high air temperature shutdown switch
- Inlet solenoid valve for constant speed control
- rugged steel baseplate
- enclosed sheetmetal beltguard
- vee-belt drive (with 2-pcs pulley)
- high pressure, pressure switch (supplied loose)
- magnetic starter (supplied loose)
- star-delta control panel with solenoid valve for 15HP
- factory filled XL740HT synthetic lubricant

# HIGH PRESSURE



## **Dependable Type 30® Air Compressors Designed Specifically for High Pressure Operation.**

Ingersoll-Rand's Type-30 range of reciprocating air compressors have been outperforming the competition for 75 years. Our high pressure version is no different.

These air-cooled, multi-stage, splash-lubricated air compressors are available from 15hp – 20hp and are designed for applications requiring high pressure air from 300 psig to 6,000 psig.

When performance is defined by maximum operating pressure, increased air flow, and extended duty cycles, Type-30 premier high pressure air compressor is the product of choice.

High Pressure reciprocating compressors are used for a wide range of applications in the industry. These compressors play a critical role in a number of applications in the fast growing Power Generation Industry. High pressure compressed air plays an integral role in applications ranging from Air Blast systems for High Power electrical circuit breakers, Gas turbine and engine starting, pressurizing hydraulics in speed controllers.

Ingersoll Rand's models 15T2 and H15T2 specially designed for the Power Generation Industry are the preferred choice of compressors in the Power Industry world-wide.

### **Standard Scope of Supply Base plate mounted units**

- heavy duty cast iron pump
- low oil level shutdown switch
- interstage safety valves and pressure gauges
- discharge check valve & safety valve
- auto-condensate drain valve on separator legs
- efficient TEFC electric motor, IP54, 1.15 S.F
- rugged steel baseplate
- enclosed sheetmetal beltguard
- vee-belt drive (with 2-pcs pulley)
- high pressure, pressure switch (supplied loose)
- magnetic starter (supplied loose)
- star-delta control panel with solenoid valve for 15HP& 20HP
- factory filled XL740HT synthetic lubricant (except H15T2)

\* H15T2 prefilled with mineral lubricant and to change out to XL740HT synthetic lubricant after first 100 hours



H15T2XB20/80-FF \*



15T4XB15/245-FF

## Standard Scope Of Supply

	PA	15T2	H15T2	15T4	H15T4	H15T6
Industrial Filter	√	√	√	√	√	√
Splash Lubricated	√	√	√	√	√	√
Aircooled Intercooler & Aftercooler	√	√	√	√	√	√
Interstage Gauges	√	√	√	√	√	√
Safety Valves	√	√	√	√	√	√
Auto Condensate Drain System	√	√	√	√	√	√
Discharge Check Valve	√	√	√	√	√	√
High Air Temperature Switch	√	*	*	*	*	*
Low Oil Level Switch	√	√	√	√	√	√
Dual Control	*	*	*	*	*	*

## \* Optional

## Specifications - Premier Package

Model	Horsepower		Speed	Max Pressure	Piston Displacement		Free Air Delivery		No of Cylinder	Compression Stage	Dimension	Weight
	HP	Kw	RPM	psig	cfm	m3/min	cfm	m3/min			L x W x H (mm)	KGS
PA-15/30-FF	15	11	900	425	49.5	1.40	37.7	1.07	3	3	1400 x 1030 x 860	473
15T2XB15/35-FF	15	11	900	500	49.5	1.40	37.7	1.07	3	3	1400 x 1030 x 860	473
15T2XB15/55-FF	15	11	785	800	43.1	1.23	32.3	0.92	3	3	1400 x 1030 x 860	473
15T2XB15/70-FF	15	11	725	1000	39.8	1.13	29.7	0.85	3	3	1400 x 1030 x 860	473
H15T2XB20/80-FF	20	15	900	1200	49.5	1.40	33.0	0.94	3	3	1400 x 1030 x 860	493
H15T2XB20/105-FF	20	15	900	1500	49.5	1.40	32.7	0.93	3	3	1400 x 1030 x 860	493
15T4XB15/245-FF	15	11	820	3500	30.2	0.86	17.5	0.50	3*	4	1425 x 1035 x 1150	520
H15T4XB15/344-FF	15	11	775	5000	28.5	0.81	16.2	0.46	3*	4	1425 x 1035 x 1150	520
15T4XB20/245-FF	20	15	1000	3500	36.8	1.04	21.4	0.61	3*	4	1425 x 1035 x 1150	540
H15T4XB20/344-FF	20	15	1000	5000	36.8	1.04	20.9	0.60	3*	4	1425 x 1035 x 1150	540
H15T6XB20/414-FF	20	15	885	6000	28.9	0.93	18.9	0.54	3*	4	1410 x 1035 x 1200	650

Reference Conditions: Inlet Pressure – 1 bar, temperature 20 deg C.

FF = Premier Feature Package

\* double-acting cylinder 1st & 2nd stage

**Industrial Solutions - Light**

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