



Screw - Vertical



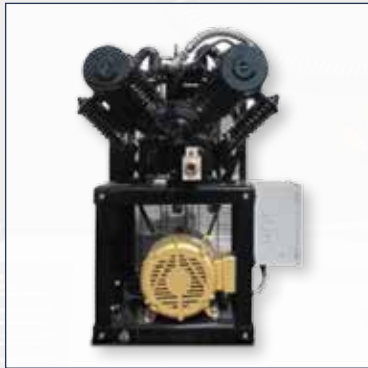
Screw - Horizontal



Duplex - Horizontal



Piston - Vertical



Piston - Cube



Screw - Enclosed Elite



Screw - Cube

Compressor electrical connections must be wired and installed per NEC, National Electric Code, and all local applicable codes for full electric compressor warranty.

Ai007\_0918

# RTi Compressor Guide

CA PROPOSITION 65 WARNING



**WARNING:** Cancer and Reproductive Harm

[www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product)



(800) 521-9200

[www.driair.com](http://www.driair.com) | [www.rti-pbe.com](http://www.rti-pbe.com)

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# Compressor Overview

## Rotary Screw Compressors

A great choice for almost any application, these units have 100% duty cycle so you cannot overwork the compressor. The simple maintenance and once-a-year oil change has made this series a perfect fit for body shops and many other applications. For demanding applications that require high CFM and pressures to 180 PSI, these rotary screw compressors are engineered with design simplicity; fewer parts mean a more reliable compressor. The control panel is simple to operate and troubleshoot. This series is the best priced screw compressor assembled in the U.S.A.

- Available 5-100 HP
- Operating pressures from 100-180 PSI
- Low tip speeds on air end for long life
- Less than 3 PPM oil carry over
- One solenoid valve to operate machine
- Quiet operation
- Spin on separator & oil filter
- Oil after-cooler on all models
- 8000 hour full synthetic oil standard
- 125, 150, 175, 195 operating pressure at no extra charge
- Analog controls - No unnecessary/unreliable microprocessor
- 5 year extended warranty available for air end
- German air end components
- 125, 150, 175, 195 operating pressure at no extra charge

## Enclosed Rotary Screw Compressors

Enclosed rotary screw compressors are the perfect compressors for the shop that wants to keep DBA's to a minimum. With the 5 HP operating at 64 DBA's and the 100 HP at 72 DBA's, they will hardly know it is running. With the same great air end as the rotary screw compressors, maintenance is still a simple process. Just unlatch the door, spin the old filter off and place the new one on. Simple is better. These compressors are designed for years of easy use and trouble free maintenance.

- Available 5-300 HP
- Operating pressures from 100-180 PSI
- Low tip speeds on air end for long life
- Less than 3 PPM oil carry over
- One solenoid valve to operate machine
- Quiet operation, low DBA
- Spin on separator & oil filter
- Oil after-cooler on all models
- 8000 hour full synthetic oil standard
- 125, 150, 175, 195 operating pressure at no extra charge
- Analog controls - No unnecessary/unreliable microprocessor
- 5 year extended warranty available for air end
- German air end components

## Reciprocating Piston Compressors

The reciprocating piston compressors are designed for automotive and industrial applications. The CA2 pumps are manufactured for durability and long life. The units feature some of the most heavy duty components found in piston compressors today. The units run at a low RPM to provide reliable air for your application. CAS Large Industrial Compressors are designed for the heavy duty industrial air user that requires reliability and value in a high CFM reciprocating compressor.

- Solid cast iron pump
- Disk and spring valves
- Centrifugal unloader
- Low pump rpm
- Oil sight glass
- Oil drain and fill on front of compressor pump
- Heavy duty NEMA motors
- OSHA style totally enclosed belt guard
- ASME code receivers
- Needle bearings
- Operating pressures from 100-180 PSI
- Low tip speeds on air end for long life
- Less than 3 PPM oil carry over
- One solenoid valve to operate machine
- Quiet operation
- Spin on separator and oil filter
- Oil after-cooler on all models
- 8000 hour full synthetic oil standard
- 125, 150, 175, 195 operating pressure at no extra charge
- Analog controls - No unnecessary/unreliable microprocessor
- 5 year extended warranty available for air end

# Features & Benefits/Part No. Breakdown

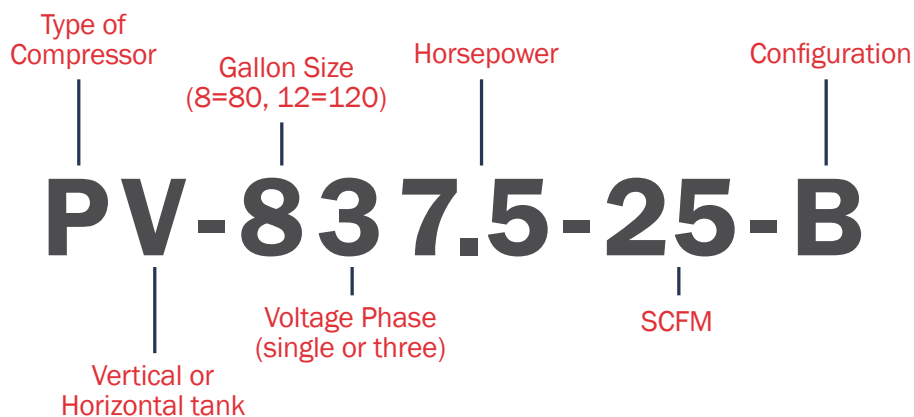
## 5-10 Horsepower BASIC Series (Piston Compressors)

Included in package	Compressed Air Systems Basic Series
Centrifugal unloader	Yes
Cast inter-stage cooler	Yes
Pump disk & spring valves	Yes
Discharge cast cooler	Yes
Flexible stainless steel discharge line	Yes
JIC o-ring seal fittings	Yes
TEFC drive motor 3 phase units	Yes
Electronic over load protection with phase loss monitoring	Yes
NEMA 4 compressor wiring	Yes
Press. gauge eye level/easy viewing	Yes
4 mounting feet positions for install	Yes
Bearings on both ends of crank shaft	Yes
Discharge line fittings not proprietary (easy to find at any hardware store)	Yes
Pump speed: 950 RPM or less	Yes

## 5-10 Horsepower ELITE Series (Piston Compressors)

Included in package	Compressed Air Systems Elite Series
Vibration isolation pads	Yes
Automatic tank drain	Yes
Low oil monitor	Yes
Centrifugal unloader	Yes
Solid aluminum welded air after-cooler	Yes
Cast inter-stage cooler	Yes
Pump disk & spring valves	Yes
Discharge cast cooler	Yes
Flexible stainless steel discharge line	Yes
TEFC drive motor 3 phase units	Yes
Electronic over load protection with phase loss monitoring	Yes
NEMA 4 compressor wiring	Yes
Press. gauge eye level/easy viewing	Yes
4 mounting feet positions for install	Yes
Bearings on both ends of crank shaft	Yes
Discharge line fittings not proprietary (easy to find)	Yes
Pump speed: 950 RPM or less	Yes

## Part Number Breakdown



### Examples:

**PV-837.5-25-B:** Piston compressor, vertical, 80 gallon tank, three phase, 7.5 horsepower, 25 SCFM rating, basic configuration.

**DPH-12310-74-E:** Duplex Piston compressor, horizontal, 120 gallon tank, three phase, 10 horsepower, 74 SCFM rating, elite configuration.

**RSV-12110-42-B:** Rotary Screw compressor, vertical, 120 gallon tank, single phase, 10 horsepower, 42 SCFM rating, basic configuration.

**\*\*Please note that part numbers do vary, this is just a basic guide to understanding the part numbers.**

# Piston Compressors

Piston compressors are designed for automotive and industrial applications. The CA2 pumps are manufactured for durability and long life. The units feature some of the most heavy duty components found in piston compressors today. The units run at a low RPM to provide reliable air for your application.

## PISTON | BASIC (A)

Part Number	Phase	HP	Tank
PV-837.5-25-B	Three Phase	7.5	80 gal./vert.
PH-817.5-25-B	Single Phase	7.5	80 gal./horiz.
PH-837.5-25-B	Three Phase	7.5	80 gal./horiz.
PV-1217.5-25-B	Single Phase	7.5	120 gal./vert.
PV-8310-37-B	Three Phase	10	80 gal./vert.
PH-8310-37-B	Three Phase	10	80 gal./horiz.
PH-12315-58-B	Three Phase	15	120 gal./horiz.



**A**

## PISTON | ELITE (\*\*)

Part Number	Phase	HP	Tank
PV-837.5-25-E	Three Phase	7.5	80 gal./vert.
PH-817.5-25-E	Single Phase	7.5	80 gal./horiz.
PV-1217.5-25-E	Single Phase	7.5	120 gal./vert.
PH-837.5-25-E	Three Phase	7.5	80 gal./horiz.
PV-8310-37-E	Three Phase	10	80 gal./vert.
PH-8310-37-E	Three Phase	10	80 gal./horiz.



**B**

## DUPLEX PISTON | BASIC (B)

Part Number	Phase	HP	Tank
DPH-1237.5-45-B	Three Phase	7.5	120 gal./horiz.
DPH-1217.5-64-B	Single Phase	7.5	120 gal./horiz.
DPH-12310-74-B	Three Phase	10	120 gal./horiz.

## DUPLEX PISTON | ELITE (\*\*)

Part Number	Phase	HP	Tank
DPH-1237.5-45-E	Three Phase	7.5	120 gal./horiz.
DPH-1217.5-64-E	Single Phase	7.5	120 gal./horiz.
DPH-12310-74-E	Three Phase	10	120 gal./horiz.
DPH-24315-117-E	Three Phase	15	240 gal./horiz.

**\*\*Please note that ELITE CONFIGURATION Compressors will get FREE FREIGHT in the continental United States.**

# Screw Compressors

Screw compressors are a great fit for almost any application. The units have a 100% duty cycle so you cannot overwork the compressor. The simple maintenance and once a year oil change has made this series a perfect fit for body shops and many other applications.

## GCU ROTARY SCREW (OPEN) | BASEMOUNT

Part Number	Phase	HP
RSB37-28-GE	Three Phase	7.5
RSB310-38-GE	Three Phase	10
RSB315-52-GE	Three Phase	15
RSB320-78-GE	Three Phase	20

## GCU ROTARY SCREW (OPEN) | ELITE (\*\*)

Part Number	Phase	HP	Tank
RSH817-28-GE	Single Phase	7.5	80 gal./horiz.
RSV837-28-GE	Three Phase	7.5	80 gal./vert.
RSH837-28-GE	Single Phase	7.5	80 gal./horiz.
RSV8310-38-GE	Three Phase	10	80 gal./vert.
RSH8310-38-GE	Three Phase	10	80 gal./horiz.
RSH12310-38-GE	Three Phase	10	120 gal./horiz.
RSV12310-38-GE	Three Phase	10	120 gal./vert.
RSV8315-52-GE	Single Phase	15	80 gal./vert.
RSH8315-52-GE	Single Phase	15	80 gal./horiz.

## ROTARY SCREW (OPEN) | BASIC (D)

Part Number	Phase	HP	Tank
RSV-837.5-29-B	Three Phase	7.5	80 gal./vert.
RSH-817.5-29-B	Single Phase	7.5	80 gal./horiz.
RSH-837.5-29-B	Three Phase	7.5	80 gal./horiz.
RSV-8310-42-B	Three Phase	10	80 gal./vert.
RSH-8310-42-B	Three Phase	10	80 gal./horiz.
RSV-12310-42-B	Three Phase	10	120 gal./vert.
RSV-8315-31-B	Three Phase	15	80 gal./vert.
RSH-12315-31-B	Three Phase	15	120 gal./horiz.

## ENCLOSED RS with REF. DRYER | ELITE (\*\*)

Part Number	Phase	HP	Tank
RSH-817.5-ENC-CRD	Single Phase	7.5	80 gal./horiz.
RSH-837.5-ENC-CRD	Three Phase	7.5	80 gal./horiz.
RSH-8310-ENC-CRD	Three Phase	10	80 gal./horiz.
RSH-8315-ENC-CRD	Three Phase	15	80 gal./horiz.

## ENCLOSED ROTARY SCREW | BASIC (C)

Part Number	Phase	HP	Tank
RSH-817.5-ENC-BMT	Single Phase	7.5	80 gal./horiz.
RSH-837.5-ENC-BMT	Three Phase	7.5	80 gal./horiz.
RSH-8310-ENC-BMT	Three Phase	10	80 gal./horiz.
RSH-8315-31-ENC-BMT	Three Phase	15	80 gal./horiz.
RSH-8315-ENC-BMT	Three Phase	15	80 gal./horiz.



## ROTARY SCREW (OPEN) | ELITE (\*\*)

Part Number	Phase	HP	Tank
RSV-817.5-29-E	Single Phase	7.5	80 gal./vert.
RSV837.5-29-E	Three Phase	7.5	80 gal./vert.
RSH-817.5-29-E	Single Phase	7.5	80 gal./horiz.
RSH-837.5-29-E	Three Phase	7.5	80 gal./horiz.
RSV-8310-42-E	Three Phase	10	80 gal./vert.
RSH8310-42-E	Three Phase	10	80 gal./horiz.
RSV-8315-31-E	Three Phase	15	80 gal./vert.
RSH-12315-31-E	Three Phase	15	120 gal./horiz.

\*\*Please note that ELITE CONFIGURATION Compressors will get FREE FREIGHT in the continental United States.

# Cube-style Compressors

Cube-style compressors are designed to be the simplest compressors to operate, service, maintain, and install. With a Cube-style compressor you no longer need to purchase an air receiver every time you need a new compressor, you simply connect the Cube-style compressor to your existing air receiver. This allows you to save on space and cost.

## PISTON | BASIC (E)

Part Number	Phase	HP
PQ15-19-B	Single Phase	5
PQ35-19-B	Three Phase	5
PQ17-25-B	Single Phase	7.5
PQ37-25-B	Three Phase	7.5
PQ310-37-B	Three Phase	10

## PISTON | ELITE (\*\*)

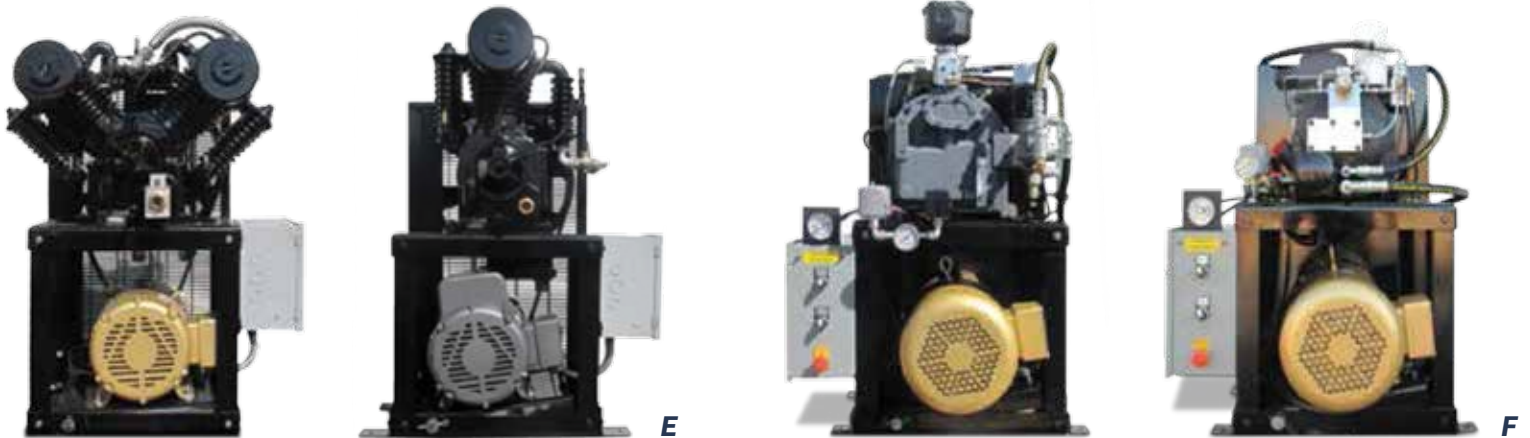
Part Number	Phase	HP
PQ15-19-E	Single Phase	5
PQ35-19-E	Three Phase	5
PQ17-25-E	Single Phase	7.5
PQ37-25-E	Three Phase	7.5
PQ17-32-E	Single Phase	7.5
PQ37-32-E	Three Phase	7.5
PQ310-37-E	Three Phase	10
PQ315-49-E	Three Phase	15

## GCU ROTARY SCREW | BASIC (F)

Part Number	Phase	HP
RSQ15-17-GB	Single Phase	5
RSQ35-17-GB	Three Phase	5
RSQ17-26-GB	Single Phase	7.5
RSQ37-26-GB	Three Phase	7.5
RSQ310-39-GB	Three Phase	10

## GCU ROTARY SCREW | ELITE (\*\*)

Part Number	Phase	HP
RSQ15-17-GE	Single Phase	5
RSQ35-17-GE	Three Phase	5
RSQ17-26-GE	Single Phase	7.5
RSQ37-26-GE	Three Phase	7.5
RSQ310-39-GE	Three Phase	10
RSQ315-60-GE	Three Phase	15
RSQ315-52-GE	Three Phase	15



**\*\*Please note that ELITE CONFIGURATION Compressors will get FREE FREIGHT in the continental United States. Cube-Style Compressors are available in stand-alone tanks.**

# Accessories/Warranty Information

## COMPRESSOR OILS (G)

Part Number	Description
RTi-OILQTRCP	Oil, Synthetic (Piston), Quart
RTi-OILGLRCP	Oil, Synthetic (Piston), Gallon
RTi-RS8000GL	Oil, Synthetic (Screw), Gallon
RTi-RS8000	Oil, Synthetic (Screw), 5 Gallons

## STAND ALONE AIR TANKS

Part Number	Description
RTi-300559	Tank, vertical, 80 gal.
RTi-300569	Tank, horizontal, 80 gal.
RTi-301022.1	Tank, vertical, 120 gal.
RTi-300561	Tank, horizontal, 120 gal.

## AIR INTAKE FILTERS | PISTON & SCREW

Part Number	Description
RTi-14	Filter, fits most 5-15 HP piston
RTi-NK30AF	Filter, fits most 5-10 HP screw
RTi-NK60AF	Filter, fits most 15-20 HP screw

## OIL FILTERS | ROTARY SCREW (H)

Part Number	Description
RTi-NK300F	Filter, fits most 5-10 HP screw
RTi-NK600F	Filter, fits most 15-20 HP screw

## MAINTENANCE KITS | ROTARY SCREW

Part Number	Description
RT510HPNK	kit for 5-10 HP rotary screw
RT1520HPNK60	kit for 15-20 HP rotary screw
RT510HP-G11	kit for 5-10 hp GCU rotary screw

## MAINTENANCE KITS | PISTON

Part Number	Description
RTi-7.5HP-CA1-12M	kit for CA1 7.5 HP reciprocating
RTi-7.5HP-CA2-12M	kit for CA2 7.5 HP reciprocating
RTi-10HP-CA2-12M	kit for 10 HP reciprocating

## SEPARATORS | ROTARY SCREW

Part Number	Description
RTi-NK30SE	Separator, fits 5-10 HP screw
RTi-NK60SE	Separator, fits 15-20 HP screw



G



H

## WARRANTY

The standard warranty is 1 year parts and labor and 2 years parts and labor on the airend and rotors and bearings. If the annual service kit is bought at time of compressor purchase, then the airend warranty is extended to 5 years. The service kit includes 3 air filters, 3 oil filters, and 1 separator. The air and oil filters should be changed quarterly and the separator changed annually. 2000 hours is recommended for oil change out and separator change out. This is an industry standard. An annual filter change kit needs to be bought yearly after the first year for the 5 year warranty to apply.

For more information, please contact your RTi sales rep, or call into the main office at 800-521-9200.

# Related RTi Products

## Refrigerated Dryer Applications

Compressors can be used in shops with other RTi products such as our mainline filters (both single and double stage), refrigerated dryers, drains, and Modular Blue piping.

Refrigerated dryers are entire shop/factory applications for the elimination of water in compressed air. They must be used in applications where temperatures are above freezing.

Part Number	Airflow (SCFM)	Pressure Drop (PSI)	Power Supply (V/Ph/Hz)		Nominal Absorption Power (kW)	NPT
			115/1/60	230/1/60		
RD 0025	25	0.7	x		0.30	1/2"
RD 0035	35	1.1	x		0.36	1/2"
RD 0050	50	0.4	x		0.42	1"
RD 0075	75	0.8	x		0.68	1"
RD 0100	100	1.4	x	x	0.74	1"



\*\*Larger sizes available. Call factory for more information.

## Drains

Below are some RTi drains that go great in shops with compressors:



### ED-2-4

Electronic timer drain with indicator lights. Automatically drains water from tank and features a solid brass ball valve with stainless strainer to protect the valve. Manual override comes standard, fits 1/4" or 1/2" NPT.



### TD5

Tank/drip leg automatic drain eliminates the daily manual draining and features a 1/2" NPT inlet on top with a filter screen to protect the drain.

## Mainline Products

Below are some mainline RTi products that go great in shops with compressors:



**EX104-B/EX204-B**  
60 SCFM, 1/2" NPT



**EX106/EX206**  
90 SCFM, 3/4" NPT



**EX108/EX208**  
150 SCFM, 1" NPT



**C104-B, C106, C108**  
60, 90, 150 SCFM coalescers