

# Ingersoll-Rand®

## PET+Star™ Series 170-310



 **Ingersoll-Rand.**

# PET+Star™

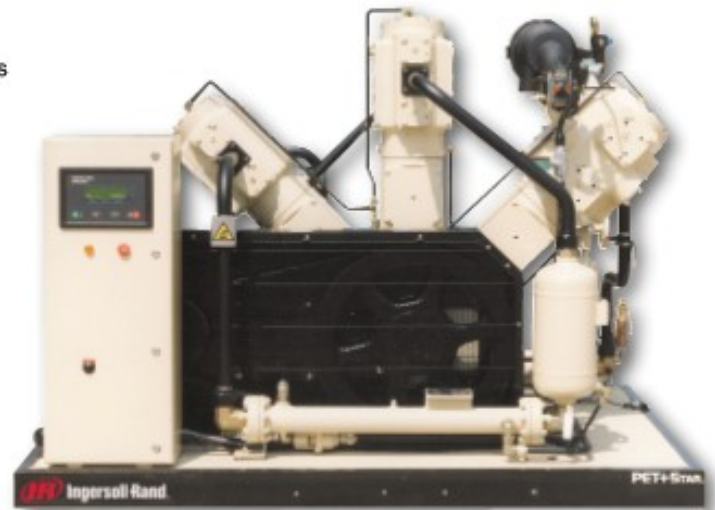
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## Quality with Reliability

- ✦ Continuous Duty, Three Stage, Double Acting, Water Cooled Design
- ✦ 100% Oil-free air
- ✦ Constructed to ASME, and NEC requirements
- ✦ Advanced composite ring materials
- ✦ Stainless steel plate valves
- ✦ Self adjusting V-Belt tensioning system
- ✦ Stainless steel air piping with SAO O-ring fittings

## Minimize Customer Cost

- ✦ High efficiency full-load operation
- ✦ Low unloaded power due to capacity control system
- ✦ EPACT efficient motor standard
- ✦ Intellisys™ microprocessor control panel monitors and records pressure and temperatures, operating hours, and percent loaded
- ✦ Concrete filled subbase to minimize foundation required
- ✦ Forklift access and lifting eyes, for ease of installation



## Standard Options

- Dryers
- Filters
- Receivers
- Star-Delta starting
- Weather proof motors
- Dual water filters, with differential pressure indication
- Heaters for frame and cylinders

## Other Applications

- ✦ Air Separation
- ✦ Air Brake Testing
- ✦ Soot Blowing
- ✦ Metal Forming
- ✦ Down Hole Air Drilling
- ✦ High Pressure Instrument Air
- ✦ Autoclaving Process
- ✦ Engine Starting
- ✦ High Pressure Industrial Air

# Designed for the Plastic Blow Molding Industry

## Frame and Air End

- † Full floating sleeve-type main bearings
- † Hardened steel piston rods
- † Balanced running gear
- † Watercooled cylinder and packing jackets
- † Three stages of compression
- † State-of-the-art self-lubricating composite material for cylinder and piston rod packing rings

## Lubrication System

- † Pressure lubricated bearings
- † Crankshaft driven oil pump
- † Oversized oil sump
- † 10 micron oil filter, spin-on type
- † Oil level indicator
- † Internal pressure relief valve

## Air System

- † Intercoolers mounted utilizing ASME construction, 15°F (9°C) CTD
- † Aftercooler mounted utilizing ASME construction, 15°F (9°C) CTD
- † High ambient temperature (115°F/46°C) design

## Control & Electrical System

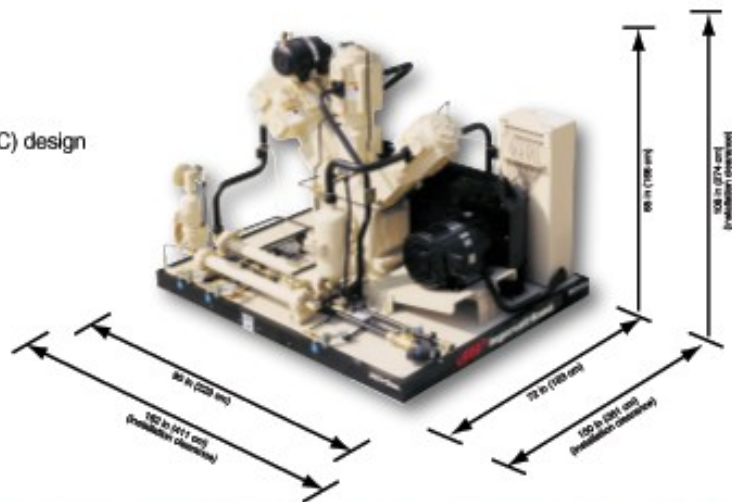
- † Two-step capacity control
- † Full-voltage, non-combination type motor starter, mounted and wired in control panel
- † NEMA 4 (IP-54) electrical enclosures and wiring

## Drive

- † V-Belt drive complete with OSHA belt guard
- † Self-adjusting belt tensioning system
- † Electric motor, ODP, 1.15 service factor
- † 230V-460V/3/60 or 380V-415V/3/50

## Package Design

- † Low profile package
- † Single point connections for:
  - discharge air
  - inlet cooling water
  - discharge cooling water
  - electrical power
- † Thermostatic water control valves, and solenoid operated shut-off valve
- † Low point drain and high point vent for cooling water system
- † Sound level - 83dBA



Unit Size	Flow (M <sup>3</sup> /hr) 40/45 Bar (g)	Motor Power (kW)	Flow (ACFM) 580/650 psig	Motor Power (HP)	Total Water Flow (gpm)
PET STAR - 170	170	30	100	40	21
PET STAR - 210	216	37	127	50	25
PET STAR - 260	245	45	144	60	28
PET STAR - 310	287	55	169	75	33

Maximum air inlet temperature, 115°F (46°C). Maximum inlet water temperature, 105°F (41°C). Water flow rates based on 95°F (35°C) water temperature. For application above 9,000 feet / 2,750 meters, contact your Ingersoll-Rand distributor or representative.