



SSR®

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UP Series Total Air System - TAS

Point of Manufacture – Campbellsville, KY, USA

SSR® UP6 5, 7.5, 10 & 15c

60Hz STANDARD SCOPE OF SUPPLY

PACKAGE

The “**Total-Air-System**” (TAS) is a unique compressor package, comprising a fully integrated rotary screw compressor with a high efficiency, cycling, air dryer, general purpose and high efficiency air filters. This is all mounted on to a horizontal air storage receiver. The TAS package occupies less space, costs less to install, and delivers high quality compressed air to maximize operating efficiency and reduce costs.

INLET AIR FILTER

The inlet air filter is 99.9% efficient at 3 microns and above.

AIREND

The airend consists of high efficiency asymmetric profiled, precision machined rotors, within a housing made from high quality, close grain cast iron. Taper roller thrust and roller bearings, are used on all UP Series models

COOLANT/AIR SEPARATION

A pre-separator performs the dual functions of removing bulk coolant from the compressed air and providing a sump for the coolant. The pre-separator is integrated with the airend forming one module, which combines the following features:

- Pressure relief valve
- Coolant sight level
- Minimum pressure/check valve
- Scavenge line to airend inlet
- Coolant drain valve
- Coolant filler plug
- Easy maintenance separator

DRIVE MOTOR

Fixed speed 2 pole, E-pact efficiency main drive motor that is designed to operate in ambient conditions up to 104°F (40°C). The motor is conservatively specified

such that when operating at maximum compressor load, the winding temperature rise is limited to 27°F (15°C) below that permitted by the design code.

BELT DRIVE

The power transmission from the drive motor to the airend male rotor is by long life poly-vee belt with easy to adjust belt tension control and simple access for maintenance. This assures performance integrity and belt life.

ENCLOSURE

The patented, enclosure is powder coated steel, with acoustic foam to keep sound levels to a minimum and is separated into three distinct, sections, the blower, the drive and the compressor module.

The enclosure gives easy access for service and maintenance.

COOLANT FILTER

The coolant filter is a high capacity 5-micron, spin-on element with pressure bypass.

CONTROL PANEL - GENERAL

Located on the front of the compressor for good visibility. The control panel includes hour meter - and, start button, power on and standby indicator lamps. Emergency stop button. Optional maintenance indicator is available

COOLERS

UP Series compressors come with an integrally mounted air-cooled combination cooler of tube and fin design. Constructed from aluminium, it is rated for full load continuous duty. The after cooler cools the compressed air prior to discharge from the package and is rated to operate in ambient temperatures from 35°F (2°C) up to 104°F (40°C)

TEMPERATURE PROTECTION

Should the compressed air temperature exceed 228°F (109°C) at the airend discharge, the controller will shut down the Compressor, and illuminate the fault indicator.

COMPRESSED AIR FILTRATION

Two stages of filtration are standard within the **Total Air System**. These are selected to reduce total system operating costs and in combination with the dryer extend effective life of production equipment, which is powered from the compressed air system.

CYCLING REFRIGERATED AIR DRYER

Totally integrated within the package and using the same cooling air flow. The air dryer which cycles on and off with the compressor, uses a unique stainless steel plate heat exchanger, environmentally sound R-134a refrigeration cycle and a high efficiency “micro channel” condenser. Water is removed from the airflow directly after the evaporator by a high efficiency, external cyclone separator. Condensate is discharged by solenoid drain from a manifold in parallel with other drain points.

BASEPLATE

A one-piece folded mild steel base, with steel strengthening supports.

COOLANT

UP Series packages are factory filled with Ingersoll Rand Premium Compressor Coolant, a PAG advanced synthetic lubricant, providing better cooling characteristics and a longer life than other synthetic lubricants.