

USER GUIDE

Congratulations on the purchase of a PILOT air compressor. This unit has been designed to provide reliable and trouble free usage in servicing your compressed air requirements.

Please take a moment to familiarise yourself with the information contained in the following sections of this guide before attempting to operate this unit.

LOCATION OF UNIT:

For optimum efficiency locate unit in a clean, cool environment with good ventilation. Avoid placing obstacles either on or around unit to facilitate maximum air flow and cooling.

OPERATION:

NOTE:

CHECK OIL LEVEL BEFORE USE IN CASE OF
LOSSES INCURRED DURING SHIPPING.

A) ELECTRIC UNITS

Ensure ON/OFF switch located on the pressure switch is in OFF position (Down) before inserting power plug into appropriate receptacle and applying power.

Unit can then be switched on using the ON/OFF switch. The pressure switch will automatically start and stop the compressor when the air receiver drops below or reaches factory set cut-in and cut-out pressures respectively.

NOTE:

ALWAYS SWITCH UNIT ON AND OFF VIA
PRESSURE SWITCH TO ENSURE THE UNIT
DOES NOT START AGAINST HIGH PRESSURE

IMPORTANT:

TO PREVENT DAMAGE TO UNIT OR PERSONS
DO NOT ATTEMPT TO MODIFY, BYPASS OR
REMOVE PRESSURE SWITCH OR SAFETY
VALVE IN ANY WAY.

"TM" AND "K" SERIES ARE DESIGNED TO
OPERATE TO A MAXIMUM PRESSURE OF
10 BAR.

"TD" SERIES ARE DESIGNED TO OPERATE
TO A MAXIMUM OF 8 BAR

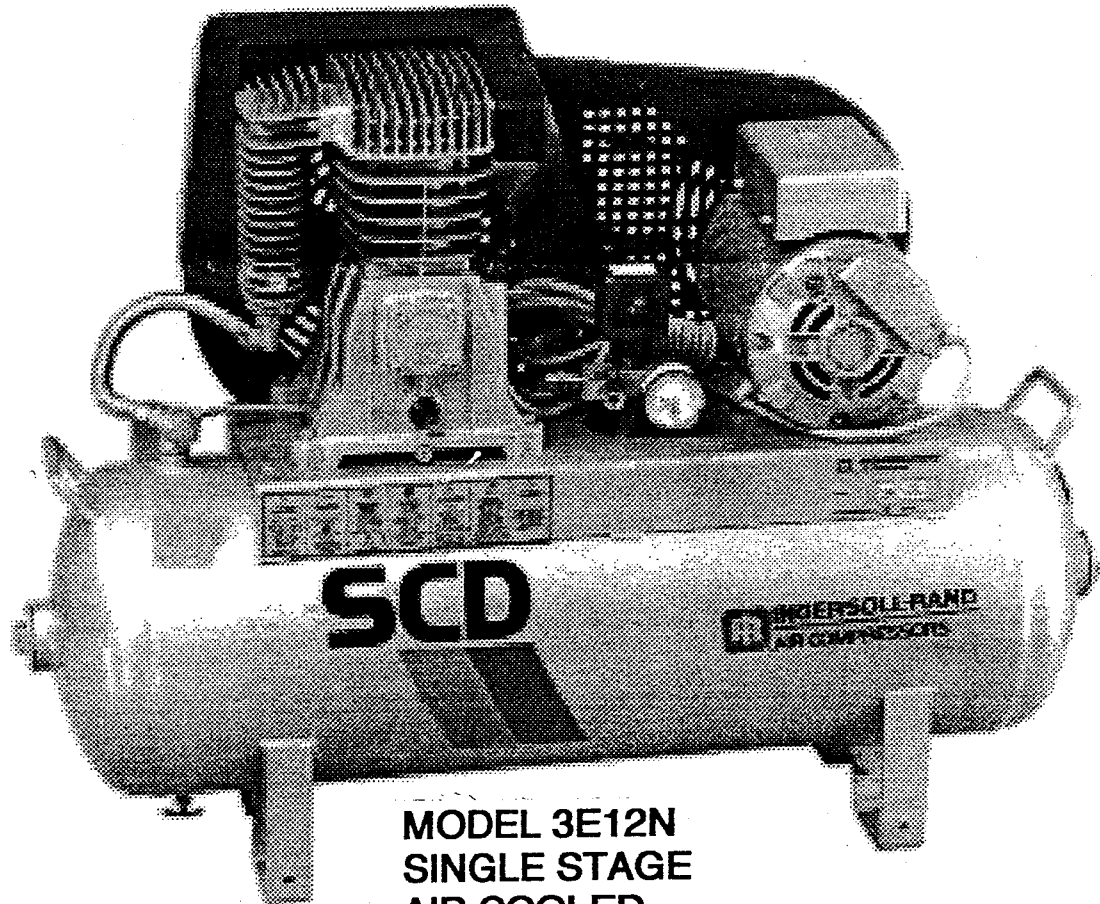
SCD

FORM AUS-SCD-3E12N

FEB 94

SECOND EDITION

INSTRUCTIONS AND PARTS LIST



MODEL 3E12N
SINGLE STAGE
AIR COOLED
COMPRESSOR

IMPORTANT -

1. CAREFULLY READ THIS INSTRUCTION MANUAL BEFORE ATTEMPTING TO OPERATE THIS UNIT.
2. ALL MACHINES AND PARTS ILLUSTRATIONS INDICATIVE ONLY.



INGERSOLL-RAND®
AIR COMPRESSORS

BRANCHES IN ALL
STATES
DISTRIBUTORS IN
PRINCIPAL CITIES

SAFETY PRECAUTIONS

This manual contains information that is important to **YOUR SAFETY** and **PREVENTING DAMAGE TO YOUR AIR COMPRESSOR**.

We are using the following symbols to help you recognize this information. Please read this manual and pay special attention to those sections.

	<div style="border: 1px solid black; padding: 5px;"> <p>WARNING IMPORTANT INFORMATION FOR PREVENTING INJURY OR LOSS OF LIFE.</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>CAUTION Information for preventing damage to equipment.</p> </div>
AREA	HAZARDS	SAFEGUARDS
Indicates where a hazard can occur	Indicates what can happen if precautions are not observed.	Indicates how to avoid the hazard and what special protective clothing, equipment, and precautions will be used.
Toxic Vapors	Compressed air from this unit may contain poisonous carbon monoxide.	Never directly inhale the compressed air produced by this unit.
	Certain sprayed materials such as paints, weed killer, sand, insecticides, etc., may be harmful if used in a close area or inhaled.	Always read labels with containers when spraying paints or poisons. Use a mask or respirator whenever there is a chance that you might inhale anything that you are spraying. Read all instructions so that you know spraying.
Electrical Shock	This unit is powered by 240 volts.	Always unplug unit prior to doing any maintenance or repair.
		Never use the unit outdoors when it is raining. Always plug the cord into an electrical outlet with the specified voltage and adequate fuse protection.
Compressed Air	Compressed air may propel dirt, metal shavings, etc. and result in possible injury.	Never point any nozzle or sprayer toward a person or any part of the body.
		Always wear safety goggles or glasses when spraying.
Air Receiver Use D.L.I. approved Air Receivers only)	Air pressure or mechanical loads that are greater than design loads could cause the air receiver to rupture. Changes to the air receiver structure will cause the receiver to weaken. Air receiver rupture or explosion could occur.	Do not adjust, remove, or by-pass the safety valve. Check the valve from time to time by pulling the ring on the valve. If the valve is stuck or does not operate smoothly, it must be replaced.
		Do not adjust, remove or by-pass the pressure switch. Never use a motor with higher horsepower rating than the one supplied.
Moving Parts	Unit cycles automatically when power is ON. During service or repair activities, this automatic cycling may cause a hazard.	Always unplug the unit before attempting repair or maintenance of the compressor. Also make sure the pressure is released from the compressor and air receiver.
Hot Parts	Air compressors get hot when running. Serious burns may result if touched.	Never touch the compressor, tubing, or motor during or immediately after operation of the compressor.

Product improvement is a continuing goal at Ingersoll-Rand and specifications are subject to change without notice or obligation.

GENERAL INFORMATION

Your new air compressor can be used for operating paint sprayers, air tools, grease guns, air brush, caulking gun, sandblaster, inflating tyres & plastic toys, spraying weed-killer and insecticides, etc. An air pressure filter regulator is usually necessary for most of these applications. This can be purchased from one of our authorised distributors.

LOCATING YOUR AIR COMPRESSOR

Locate the unit in a dry, clean, cool and well-ventilated area. The compressor is designed with fins which allow for proper cooling. Clean or blow off fins and any other parts of the compressor that collect dust or dirt. A clean compressor runs cooler & provides longer service. Do not place rags, containers, or other material on top of the compressor which would obstruct ventilation openings necessary for proper compressor operating temperature.

OPERATION - START-UP PROCEDURE

CAUTION
ALL UNITS ARE SHIPPED WITH OIL
BEFORE ATTEMPTING TO START UNIT.
CHECK BARE COMPRESSOR
FOR PROPER LEVEL.

Place unit on level surface. Remove oil fill plug and slowly pour any HD40W - HD50W SAE oil (SHELL ROTELLA TX730, TX740 or equivalent) into compressor crankcase until the oil level, shown through sight glass plug on front side of bare compressor rises to centre of sight glass. Replace oil fill plug.

TO START COMPRESSOR:

Check that lever on the pressure switch is set in the OFF position. Connect plug to main power supply. Turn power ON. Start compressor by switching ON at pressure switch.

Open air receiver service valve to permit air to escape, preventing air pressure buildup in air receiver.

RUN THE AIR COMPRESSOR FOR 20 MINUTES IN THIS NO-LOAD CONDITION TO LUBRICATE BEARINGS & PISTONS.

PRESSURE SWITCH

The pressure switch starts the motor when air receiver pressure drops below the factory-set CUT-IN pressure (600 KPa) & stops motor when the air receiver reaches the factory-set CUT-OUT pressure (862 KPa).

IMPORTANT

The ON/OFF Switch located on the Pressure Switch MUST BE USED TO SHUT DOWN THE COMPRESSOR to ensure pressure is unloaded through the Vented Check Valve via the Pressure Switch Unloader Valve.
FAILURE TO COMPLY WITH THIS INSTRUCTION MAY CAUSE ELECTRIC MOTOR DAMAGE AND WILL VOID WARRANTY.

CONTROL

Pressure Switch, Safety Valve, Service Valve and Pressure Gauge are mounted on a manifold in between Compressor and Motor at the centre of the base on top of the Receiver.

WARNING

AIR PRESSURE BEYOND DESIGN LIMITS COULD CAUSE THE AIR RECEIVER TO RUPTURE OR EXPLODE. PRESSURE SWITCH OPERATION IS RELATED TO MOTOR HP, RECEIVER RATING, AND SAFETY VALVE SETTING. DO NOT ATTEMPT TO ADJUST, REMOVE, OR BYPASS THE PRESSURE SWITCH, OR CHANGE AND MODIFY ANY PRESSURE CONTROL RELATED DEVICE.

CAUTION

MAXIMUM WORKING PRESSURE FOR THIS COMPRESSOR IS 862 KPa (125 psi). TO PREVENT DAMAGE TO THE UNIT, DO NOT EXCEED THIS PRESSURE.

AIR RECEIVER SAFETY VALVE

Pressure switch is pre-set to shut off the motor at the max. operating pressure. If pressure switch does not shut off the air compressor package unit at its CUT-OFF pressure setting, the safety valve will protect against over-pressurizing the air receiver by "popping off" at its pre-set pressure setting.

PETROL ENGINE DRIVEN UNIT

This is a continuous running machine & does not have a pressure switch. Unit is fitted with engine idle control for fuel consumption and pressure control. The safety valve is set to protect the receiver from over-pressurizing by "popping off" at its pre-set pressure setting.

WARNING

OVER-PRESSURIZING THE AIR RECEIVER COULD CAUSE THE AIR RECEIVER TO RUPTURE OR EXPLODE. THE AIR COMPRESSOR PACKAGE UNIT IS PROTECTED FROM OVER-PRESSURIZING BY A SAFETY VALVE. DO NOT ELIMINATE, MAKE ADJUSTMENTS, OR SUBSTITUTIONS FOR THIS VALVE. OCCASIONALLY PULL THE RING ON THE SAFETY VALVE TO MAKE SURE THAT THE VALVE OPERATES FREELY. IF THE VALVE IS STUCK OR DOES NOT OPERATE SMOOTHLY, IT MUST BE REPLACED.

ELECTRIC MOTOR DRIVEN UNIT

The motor has a manual overload protector. If the motor over-heats for any reason, the overload protector will shut off the motor. To Re-start the motor, press the RESET button located at rear of the motor.

IMPORTANT

If the overload protector shuts the motor off frequently, check for a possible voltage problem. Low voltage can also be suspected when:

1. The motor does not develop full power or speed.
2. Fuses blow out when starting motor.
3. Lights dim and remain dim when motor is started.

AVOID USING LONG EXTENSION CORDS. They can cause a power loss to the motor. Add extra air hose instead of extension cords. If an extension cord must be used, follow the recommendations shown at bottom of page 5.