

(Splash Lube 20-25HP)

Model 2000 (Splash Lube) Engineering Data

5.5" & 5.5" & 4"	Min RPM: 550	Aircooled Aftercooler CTD: 25° F
4.75"	Max RPM: 1000	(Package performance)
(2) 1.5 NPT	Sheave OD: 25.0"	Number of Belts: 2
1" NPT	Sheave PD: 24.9"	Belt Section 5V

Performance						Nameplate Amp Ratings				
Bare	Motor HP	PSI	RPM	ACFM	BHP	200-3-60	230-3-60	460-3-60	575-3-60	
2000	20	125	670	72.0	18.0	20HP	63.4	55.2	27.6	22.1
2000	20	175	670	72.0	20.0					
2000	25	125	785	83.0	23.0	25HP	70.2	61.0	30.5	24.4
2000	25	175	785	82.0	26.0					

Duplex units multiply capacity by two

Bare Pump Detailed Specifications—All Models

FRAME—Completely cast iron with cylinders bolted directly to the frame. Frame is completely sealed yet allows for maximum accessibility.

CRANKSHAFT—The ductile iron, simply supported, two-throw design is supported by a heavy-duty ball bearing at each end of the frame. Entire shaft is balanced with integral counterweights to insure smooth operation.

CONNECTING RODS—The rods are two piece with replaceable inserts. Integral dippers are cast into the rod caps to provide splash lubrication to the pump.

CYLINDERS—Model 2000 has two low-pressure cylinders and one high-pressure cylinder. These are 100% cast iron, separately cast and individually bolted to the frame. The cylinders are precision honed for low oil carryover. Radial fins on the cylinders help remove heat and ensure 360 degree cooling of the cylinders.

PISTONS—Precision balanced low pressure and high-pressure aluminium pistons provide smooth operation.

RINGS—There are four piston rings for sealing, compression, and oil control. One taper faced compression ring and one oil scraper, and two three-piece oil control rings provide quick seating and proper lubrication on cylinder walls. Precision honing used in conjunction with the ring stack up means low oil carryover.

FLYWHEEL—The cast iron, v-belt driven, fan type flywheel forces a cyclone air blast to provide cooling for the deep finned cylinders and multi-finned tube intercooler. The flywheel is balanced to keep vibration to a minimum.

INTERCOOLER—Two stage compressors use an intercooler. The intercooler between stages is of finned cooper tube construction to provide maximum cooling area. This keeps running temperatures and power needs to a minimum, ensuring high air delivery for horsepower expended. The intercooler is provided with a relief valve to prevent over-pressurization.

LUBRICATION—Splash lubrication of running parts is simple and reliable. Lubrication dipper is integral with the connecting rod and cannot come loose. There are no oil filters or screens to service or replace.

INLET FILTER—A heavy-duty, 10-micron, high dust inlet filter with built in centrifugal pre-cleaner and automatic dust ejector valve is provided as standard.

VALVES—Efficient valve design is utilized. Inlet and discharge finger valves allow maximum air flow. Valve plate is easily removed for inspection and maintenance.

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CENTRIFUGAL UNLOADER—The centrifugal unloader automatically bleeds the air from intercoolers and cylinders, preventing the compressor from starting against full load. This protects the motor from premature wear.

LOW OIL LEVEL SWITCH—Low oil level switch prevents the unit from operating when oil level is low.

OIL LEVEL SIGHT GLASS—Visual indicator allowing operator to view oil level within crankcase.

Simplex Electric Package-- Detailed Specifications

BASE—The compressor and motor are aligned on a heavy steel base.

RECEIVER— Receiver mounted simplex units are mounted atop an ASME, National Board Certified and Coded horizontal receiver tank. Receiver tank includes pressure gauge, manual condensate drain valve, service valve, and pressure relief valve as standard. Available simplex receiver tank sizes are 120-gallon or 240-gallon horizontal.

DRIVE—The drive is V-belt type with provision for easy adjustment of belt slack. An easily removed sheetmetal beltguard is supplied as standard equipment.

MOTOR—Standard AC motors are 1800 rpm, NEMA T frame with drip-proof enclosure, Class B insulation, 1.15 Service Factor, and grease lubricated ball bearings. Standard three-phase motor voltages are 200, 230/460, and 575.

CONTROLS—Units are equipped for dual control; both automatic start and stop operation with NEMA 1 pressure switch and constant speed control with finger unloading on compressor inlets.

AIRCOOLED AFTERCOOLER—A standard, factory mounted and piped aircooled aftercooler lowers package discharge air to within 25°F of ambient temperature. A pressure relief valve is provided to protect against over-pressurization.

"Fully Packaged" Units-- Detailed Specifications

BASE—The compressor and motor are aligned on a heavy steel base.

RECEIVER— Receiver mounted simplex units are mounted atop an ASME, National Board Certified and Coded horizontal receiver tank. Receiver tank includes pressure gauge, manual condensate drain valve, service valve, and pressure relief valve as standard. Available simplex receiver tank sizes are 120-gallon or 240-gallon horizontal.

DRIVE—The drive is V-belt type with provision for easy adjustment of belt slack. An easily removed sheetmetal beltguard is supplied as standard equipment.

MOTOR—Standard AC motors are 1800 rpm, NEMA T frame with drip-proof enclosure, Class B insulation, 1.15 Service Factor, and grease lubricated ball bearings. Standard three-phase motor voltages are 200, 230/460, and 575.

NEMA 1 E-SERIES STARTER (MTD. & WIRED)—Package includes mounted and wired E-Series starter to provide full voltage control and protection for electric drive motor. E-Series starter includes thermal relays, which protect the motor windings from harmful currents and resultant temperature rise caused by overloaded motor, low line voltage, or stalled rotor. Fused control circuit, on/off switch, reset button, and NEMA 1 UL/CSA approved enclosure are standard. Starter is prewired for 230-3-60 voltage. A voltage conversion kit is supplied as standard for field conversion to 460/3/60 voltage. The voltage conversion kit includes all necessary components to convert from 230/3/60 to 460/3/60 including electrical components, decal, and instructions to make the conversion. Fully Packaged models are also available in 200/3/60 and 575/3/60 voltages.

CONTROLS—Units are equipped for dual control; both automatic start and stop operation with NEMA 1 pressure switch and constant speed control with finger unloading on compressor inlets.

AIRCOOLED AFTERCOOLER—A standard, factory mounted and piped aircooled aftercooler lowers package discharge air to within 25°F of ambient temperature. A pressure relief valve is provided to protect against over-pressurization.

AUTOMATIC DRAIN VALVE—115-volt electric condensate drain valve (receiver mounted/with 6-foot power cord) providing adjustable 0-45 minute drain cycle, 0-10 second purge duration and "push to test" button.

(NOTE: NO MODIFICATIONS OR OPTIONS ARE AVAILABLE FOR FULLY PACKAGED UNITS OTHER THAN THOSE DESCRIBED IN THIS SECTION.)

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"Premier Series" Model-- Detailed Specifications

BASE—The compressor and motor are aligned on a heavy steel base.

RECEIVER— Receiver mounted simplex units are mounted atop an ASME, National Board Certified and Coded horizontal receiver tank. Receiver tank includes pressure gauge, manual condensate drain valve, service valve, and pressure relief valve as standard. Available receiver tank sizes are 120-gallon or 240-gallon horizontal configurations for the Premier Series models.

DRIVE—The drive is V-belt type with provision for easy adjustment of belt slack. An easily removed sheetmetal beltguard is supplied as standard equipment.

MOTOR—Standard AC motors are 1800 rpm, NEMA T frame with drip-proof enclosure, Class B insulation, 1.15 Service Factor, and grease lubricated ball bearings. Standard three-phase motor voltages are 200, 230/460, and 575.

NEMA-1 DELUXE STARTER FOR SIMPLEX UNITS (Mounted & Wired): NEMA-1 deluxe starters provide full-voltage control of electric drive motors. They include a NEMA-1 enclosure, manual reset button, hour meter, on/off switch, 120-volt control voltage transformer, and thermal relays, which provide overload protection. Fused control circuit complies with National Electrical Code (UL and CSA approved). Starter is prewired for 230-3-60 voltage. A voltage conversion kit is supplied as standard for field conversion to 460/3/60 voltage. The voltage conversion kit includes all necessary components to convert from 230/3/60 to 460/3/60 including electrical components, decal, and instructions to make the conversion. Premier Series models are also available in 200/3/60 and 575/3/60 voltages.

CONTROLS—Units are equipped for dual control; both automatic start and stop operation with NEMA 1 pressure switch and constant speed control with finger unloading on compressor inlets.

AIRCOOLED AFTERCOOLER—A standard, factory mounted and piped aircooled aftercooler lowers package discharge air to within 25°F of ambient temperature. A pressure relief valve is provided to protect against over-pressurization.

AUTOMATIC DRAIN VALVE—115-volt electric condensate drain valve (receiver mounted/ factory wired) providing adjustable 0-45 minute drain cycle, 0-10 second purge duration and "push to test" button.

START-UP KIT: Premier Series compressors come standard with a start-up kit. Each start-up kits contains all the parts needed to correctly start up and maintain the compressor for the first year of operation. Kits include All Season Select lubricant (quantity dependent upon sump capacity), replacement filter element(s), MSDS sheet for lubricant, and (1) proof of warranty decal. The All Season lubricant is specifically formulated to protect and preserve the air compressor pump. All Season Select Lubricant can operate up to 2000 hours (under normal operating conditions) between oil changes. Use of All Season Select lubricant from start-up throughout the first 2-years of operation provides for a full **2-YEAR PACKAGE WARRANTY**, less consumables.

(NOTE: NO MODIFICATIONS OR OPTIONS ARE AVAILABLE FOR PREMIER SERIES UNITS OTHER THAN THOSE DESCRIBED IN THIS SECTION.)

"Duplex Series" Detailed Specifications

DUPLEX MODEL—Two (2) simplex, electric, baseplate packages mounted atop an ASME coded, National Board certified, 240-gallon duplex air receiver. Pressure gauge, receiver manual drain valve, service valve, and relief valve are standard. Each compressor/ motor configuration is designed and piped to run as an independent compressor unit, however both units can run simultaneously should system demand require and provided the duplex compressor package has been equipped with an "optional" alternating control panel.

MOTOR—Standard AC motors are 1800 rpm, NEMA T frame with drip-proof enclosure, Class B insulation, 1.15 Service Factor, and grease lubricated ball bearings. Standard three-phase motor voltages are 200, 230/460, and 575.

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AIRCOOLED AFTERCOOLER—A standard, factory mounted and piped aircooled aftercooler on each baseplate package lowers package discharge air to within 25°F of ambient temperature. A pressure relief valve is provided to protect against over-pressurization.

Options—Detailed Specifications

AUTOMATIC DRAIN VALVE (Pneumatic)—As air cools in the receiver tank, moisture condenses and collects in the air receiver. The pneumatic drain valve provides unattended, automatic draining of the moisture from the receiver tank using pneumatic air pressure from the receiver tank.

AUTOMATIC DRAIN VALVE (Electric)—Same as the pneumatic drain valve above, except the electric drain valve uses 115-volt electrics to operate the drain solenoid valve. On simplex tank mounted units, the “optional” electric automatic drain valve comes standard with a 6-foot, 115-volt power cord with 3-prong plug.

E-SERIES STARTER FOR SIMPLEX UNITS (Mounted & Wired)—E-Series starters provide full-voltage control of electric drive motors. The E-Series starter includes thermal relays that protect the electric motor windings from harmful currents and resultant temperature rise caused by motor overload conditions, low line voltage, or stalled motor. On/Off switch, reset button, and NEMA-1 enclosure (UL and CSA Approved) included.

NEMA-1 DELUXE STARTER FOR TANK MOUNTED SIMPLEX UNITS (Mounted & Wired)—NEMA-1 deluxe starters provide full-voltage control of electric drive motors. They include a NEMA-1 enclosure, manual reset button, on/off switch, 120-volt control voltage transformer, and thermal relays, which provide overload protection. Fused control circuit complies with National Electrical Code (UL and CSA approved).

NEMA-4 DELUXE STARTERS FOR SIMPLEX UNITS (Mounted & Wired)—NEMA-4 deluxe starters provide full-voltage control of electric drive motors. They include a NEMA-4 enclosure, manual reset button, on/off switch, 120-volt control voltage transformer, and thermal relays, which provide overload protection. Fused control circuit complies with National Electrical Code (UL and CSA approved). NEMA-4 deluxe starters are mounted on tank-mounted configurations ONLY. For baseplate-mounted units, the NEMA-4 starter is shipped loose for field installation and wiring by a licensed electrician.

E-SERIES “NON COMBINATION” ALTERNATOR PANEL (Mounted & Wired)—This optional control panel for duplex configured units allows both compressors to operate in response to system demand. For example, if system pressure drops below the pre-set limit, compressor “A” will start. If pressure rises to the upper pre-set limit, compressor “A” will stop. Next time system pressure drops below the pre-set limit, compressor “B” will start. In the event one compressor cannot keep up with system pressure demand, both compressor units will come on simultaneously. E-Series non combination panels include (2) definite purpose motor starters with thermal overload protection, fused control circuit, (1) control relay for alternation, (1) on/ off switch, (2) manual reset buttons through the cover. All components are mounted in a NEMA-1 electrical enclosure, which meets National Electrical Code (UL and CSA approved.)

NEMA-1 or NEMA-4 “COMBINATION” DELUXE ALTERNATOR PANEL (Mounted & Wired)—This optional control panel for duplex configured units allows both compressors to operate in response to system demand. For example, if system pressure drops below the pre-set limit, compressor “A” will start. If pressure rises to the upper pre-set limit, compressor “A” will stop. Next time system pressure drops below the pre-set limit, compressor “B” will start. In the event one compressor cannot keep up with system pressure demand, both compressor units will come on simultaneously. Combination deluxe alternator panels include (2) definite purpose motor starters with thermal overload protection, fused control circuit, (1) control relay for alternation, (1) on/ off switch, (2) 120-volt control voltage transformers, (2) reset buttons through the cover, (2) fused disconnect switches with door interlock. All components are mounted in either a NEMA-1 or NEMA-4 electrical enclosure that meets National Electrical Code (UL and CSA approved.)

OUTDOOR MODIFICATION—Compressor package is furnished with TEFC motor (1.15 SF), NEMA 4 electrics and NEMA 4 low oil level protection switch. This configuration can be used for outdoor installations within the following temperature limitations; 33-deg. F to 100-deg. F. Outdoor modification does **NOT** provide freeze protection for the compressor package.



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START-UP KIT—Each start-up kits contains all the parts needed to correctly start up and maintain the compressor for the first year of operation. Kits include All Season Select lubricant (quantity dependent upon sump capacity), replacement filter element(s), MSDS sheet for lubricant, and (1) proof of warranty decal. The All Season lubricant is specifically formulated to protect and preserve the air compressor pump. All Season Select Lubricant can operate up to 2000 hours (under normal operating conditions) between oil changes. Use of All Season Select lubricant from start-up throughout the first 2-years of operation provides for a full **2-YEAR PUMP WARRANTY**, less consumables.

INSTALL KIT— Each install kit contains all the parts needed to correctly mount and install the compressor. Kits include three (3) foot braided hose with NPT swivel connectors (size matches connection on compressor) and foundation anchor bolts. Vibration pads are standard with unit. The install kit is specifically designed to ease installation of the air compressor and to protect and preserve the receiver tank.



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