Ingersoll Rand
Industrial Technologies

Industrial Systems-Light
Davidson, NC 28036

2340

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Engineering Data

Bore:	3" & 1.75"	**Min RPM:**	700	**Aircooled Aftercooler CTD:**	25° F
Stroke:	2.75"	**Max RPM:**	1575	(Package performance)	
Inlet Size:	1" NPT	**Sheave OD:**	13.75"	**Number of Belts:**	1
Discharge Size:	0.5" NPT	**Sheave PD:**	13.44"	**Belt Section:**	A

Performance

Bare	Motor HP	PSI	RPM	ACFM	BHP
2340	2	75	780	7.1	1.7
2340	2	125	780	7.0	1.9
2340	2	175	780	6.8	2.2
H2340	2	250	715	6.1	2.2
2340	3	75	1040	9.4	2.2
2340	3	125	1040	9.1	2.7
2340	3	175	1040	9.0	2.9
H2340	3	250	1070	8.9	3.2
2340L/N	5	75	1575	14.3	4.5
2340L/N	5	125	1575	14.2	4.8
2340L/N	5	175	1575	14.0	5.0
2340SS-AS	5	75	1575	14.3	4.5
2340SS-AS	5	125	1575	14.2	4.8
2340SS-AS	5	175	1575	14.0	5.0
2340S9GH-AS	9	75	1575	14.3	4.5
2340S9GH-AS	9	125	1575	14.2	4.8
2340S9GH-AS	9	175	1575	14.0	5.0

Duplex units multiply capacity by two.
H=250 PSIG operating pressure

Nameplate Amp Ratings

	115-1-60	230-1-60	200-3-60	230-3-60	460-3-60	575-3-60
2HP	24	12	7.8	6.8	3.4	2.7
3HP	34	17	11	9.6	4.8	3.9
5HP	N/A	28	17.5	15.2	7.6	6.1

Nominal Amps are based on NEC full load amperage rating for this size motor. Actual nameplate amps may vary according to motor design and/or motor manufacturer.

Bare Pump Detailed Specifications

FRAME—The 100% cast iron frame is designed to support the overhung crankshaft. Cylinders bolt directly to the cast iron frame. Frame is completely sealed yet allows for maximum accessibility.

CRANKSHAFT—A unique overhung design supported by two heavy duty ball bearings with replaceable crankpin bushing. Entire shaft is balanced with an integral counterweight to insure smooth operation.

CONNECTING RODS—Solid one-piece design. These simple, easy to maintain rods can be used only with an overhung crankshaft. Crankpin bushing inside the rod is precision ground requiring no alignment.

CYLINDERS—These are 100% cast iron, separately cast and individually bolted to the frame in a V-type configuration. 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 aluminum and high pressure cast iron pistons provide smooth operation.
RINGS—There are four piston rings for sealing compression and oil control. The taper faced compression ring and beveled oil scraper ring provide quick seating. Two, three-piece oil control rings maintain proper lubrication on cylinder wall. Precision honing used in conjunction with the ring stack up means low oil carryover.
FLYWHEEL—The cast iron fan type flywheel forces a "cyclone" air blast to provide cooling for the deep finned cylinders and finned copper 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 copper tube construction to provide maximum cooling area. It is located directly in the flywheel air blast to remove the heat of compression between stages keeping 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 dippers are integral with connecting rods and cannot come loose.
INLET FILTER—The filter has a durable canister with a dry type 10 micron inlet filter/silencer as standard.
VALVES—Reliable, time proven finger valves are quick acting and made from premium grade stainless steel. Valve components are easily removable for maintenance.

Simplex 2-3HP Detailed Specifications

BASE—The compressor and motor are aligned on a heavy steel base.
RECEIVER—Receiver mounted units are ASME, National Board coded, and include discharge mounted check valve, pressure gauge, drain valve, service valve, and relief valve.
DRIVE—The drive is V-belt type with an easily removed, totally enclosed wire beltguard.
MOTOR—Standard AC motors are NEMA T frame with open drip proof enclosure, Class B insulation,1.15 Service Factor, and grease lubricated ball bearings. Standard single phase motor voltages are 115/230V. Standard three phase motor voltages are 200, 230/460 and 575.
CONTROLS—Units are equipped for automatic start and stop operation with NEMA 1 unloading pressure switch and on/off lever.

Simplex 5HP Detailed Specifications

BASE—The compressor and motor are aligned on a heavy steel base.
RECEIVER—Receiver mounted units are ASME, National Board coded, and include discharge mounted check valve, pressure gauge, drain valve, service valve, and relief valve. Available in 60 and 80 gallon vertical receivers.
DRIVE—The drive is V-belt type with an easily removed, totally enclosed wire beltguard.
MOTOR—NEMA T frame with open drip-proof enclosure, Class B insulation, 1.15 Service Factor, and grease lubricated ball bearings. Single phase motor voltage is 230 volt and motor has an internal thermal protection device which eliminates the need for a starter. Standard three phase motor voltages are 200, 230/460 and 575.
CONTROLS—Units are equipped for automatic start and stop operation with NEMA 1 unloading pressure switch.
"E"-SERIES STARTER (MTD. & WIRED, 3 PHASE UNITS ONLY)—"E"-Series starters provide full voltage control of electric motors. They include thermal relays which protect the motor windings from harmful currents and resultant temperature rise caused by overloaded motor, low line voltage or stalled rotor. Reset button and NEMA 1 enclosure (UL & CSA approved) included.
(NOTE: NO MODIFICATIONS OR OPTIONS ARE AVAILABLE FOR 5HP SIMPLEX UNITS OTHER THAN THOSE DESCRIBED IN THIS SECTION.)

Duplex 2-3HP Detailed Specifications

RECEIVER MOUNTED—All duplex units include two bare compressors with two motors mounted on a single receiver. Each compressor/motor configuration is designed to run as an independent compression unit; however, both units can run simultaneously should system demand require.

Duplex 5HP Detailed Specifications

RECEIVER MOUNTED—All duplex units include two bare compressors with two motors mounted on a single receiver. Each compressor/motor configuration is designed to run as an independent compression unit; however, both units can run simultaneously should system demand require. Standard with an "E"-Series Non-Combination Alternator (mtd. & wired), aircooled aftercooler and automatic tank drain.
(NOTE: NO MODIFICATIONS OR OPTIONS ARE AVAILABLE FOR 5HP DUPLEX UNITS OTHER THAN THOSE DESCRIBED IN THIS SECTION.)

Options—Detailed Specifications

OUTDOOR MODIFICATION—Compressor package is furnished with TEFC (1.15 SF) motor and NEMA 4 pressure switch. Does not include the Low Oil Level Switch. This configuration can be used for outdoor installation.
LOW OIL LEVEL SWITCH—Low oil level switch prevents the unit from operating when oil level is low.
HIGH DUST FILTER—An optional heavy-duty, 10-micron, high dust inlet filter with built in centrifugal pre-cleaner and automatic dust ejector valve is available.
AIRCOOLED AFTERCOOLER—An optional air cooled aftercooler lowers package discharge air to within 25°F of ambient temperature. A relief valve is provided to protect against over-pressurization.
AUTOMATIC DRAIN VALVE—As air cools in the receiver, moisture drops out and accumulates in the tank. An automatic drain valve provides unattended, automatic draining of the moisture from the receiver tank.
"E"-SERIES STARTER (MTD. & WIRED)—SIMPLEX UNITS—"E"-Series starters provide full voltage control of electric motors. They include thermal relays which protect the motor windings from harmful currents and resultant temperature rise caused by overloaded motor, low line voltage or stalled rotor. Reset button and NEMA 1 enclosure (UL & CSA approved) included.
NEMA 4 DELUXE STARTER (MTD. & WIRED)—SIMPLEX UNITS—NEMA 4 Deluxe starters provide full voltage control of electric motors. They include NEMA 4 enclosure, manual reset button, on/off switch, 120 volt control transformer, and thermal relays which provide overload protection. Fused control circuit complies with National Electric Code (UL & CSA approved).
"E"-SERIES NON-COMBINATION ALTERNATOR (MTD. & WIRED)—DUPLEX UNITS—This optional panel enables both compression units to operate in response to system demand. For example, if system pressure dips below preset lower limit, compressor A will start. If pressure rises to upper limit set point, compressor A will shut down. Next time system pressure falls below lower limit, compressor B will start. Alternator panel includes (2) Definite Purpose (DP) starters with overloads, (1) control relay for alternation, (1) on-off switch, fused control circuit, (2) reset buttons through cover, and NEMA 1 enclosure (UL & CSA approved).
COMBINATION DELUXE ALTERNATOR (MTD. & WIRED)—DUPLEX UNITS—This optional panel enables both compression units to operate in response to system demand. For example, if system pressure dips below preset lower limit, compressor A will start. If pressure rises to upper limit set point, compressor A will shut down. Next time system pressure falls below lower limit, compressor B will start. Should system air demand require, both compression units will run simultaneously. Alternator panel includes (2) Definite Purpose (DP) starters with overloads, (1) control relay for alternation, (2) on/off switches, fused control circuit, (2) fused disconnect switches with door interlock, (2) 120 volt control transformers, (2) reset buttons, and NEMA 1 or NEMA 4 enclosure (UL & CSA approved).
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 a three (3) foot braided hose with NPT swivel connectors (size matches connection on compressor), vibration pads and foundation anchor bolts. The Install kit is specifically designed to ease installation of the air compressor and to protect and preserve the receiver tank.

NOTE: START-UP KIT & INSTALL KIT ONLY OPTIONS AVAILABLE ON 5HP UNITS.

SEE CAMPBELLSVILLE RECIP INTERNAL PRICESHEETS OR CONTACT YOUR INDUSTRIAL TECHNOLOGIES MARKETING MANAGER FOR NON-STANDARD PACKAGES, MODIFICATIONS, CONTROL PANELS OR OPTIONS FOR BASE MODELS LISTED IN THIS SECTION.

Electric Airsled Detailed Specifications

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

RECEIVER—Two (4) four gallon ASME receivers include discharge mounted check valve, receiver pressure gauge, drain valves and relief valve.

DRIVE—The drive is V-belt type with an easily removed, totally enclosed sheetmetal beltguard.

MOTOR—Standard AC motor is furnished with open drip proof enclosure, Class B insulation,1.0 Service Factor, and grease lubricated ball bearings. Standard single phase motor voltage is 230V. Unit comes standard with a power cord with 230V plug.

CONTROLS—Units are equipped for automatic start and stop operation with NEMA 1 unloading pressure switch and on/off lever.

Gasoline Airsled Detailed Specifications

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

RECEIVER—Two (4) four gallon receivers include discharge mounted check valve, receiver pressure gauge, drain valves and relief valve.

DRIVE—The drive is V-belt type with an easily removed, totally enclosed sheetmetal beltguard.

ENGINE—Honda 9HP GX270 aircooled OHV engine with pull or electric start and engine low oil shutdown.

CONTROL—Control is constant speed control with engine slowdown.

Airsled Accessories—Detailed Specifications

CART ASSEMBLY—Balanced two-wheel fixture with handle.

REGULATION PANEL—Protective steel frame, inlet pressure gauge, adjustable regulator with locking collar, discharge pressure gauge (glycerine filled) with two port discharge.

HOSE RACK—Heavy duty bracket keeps hose neatly coiled (50’ capacity).

WEATHERPROOF COVER—Fire retardant, vinyl coated fabric with inner heat liner and brass grommets for tie-down.

BATTERY BOX & CABLES—Poly marine-type battery box with set of 52” battery cables.

LIFTING SLINGS—Package of two 6’ eye to eye nylon slings.