



PORTABLE AIR POWER

— USA —



SULLAIR.COM   

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PAPPGUS201804-4

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WHY SULLAIR?

Air Compressors Built to Last

Reliability

Customers who work with Sullair have found that the intangibles make all the difference — things like trust, confidence, and peace of mind. They go to work every day having full faith in their equipment, as well as the knowledge that dedicated distributors and Sullair personnel have their back every step of the way.

Durability

Bulletproof. Built to last. However you spin it, Sullair compressors are in it for the long haul, driven by the design of the legendary air end. At jobsites all over the world — from construction to mining and more — you'll find Sullair compressors that have stood the test of time, running consistently today like they did on day one.

Performance

You have high expectations for your operations, and we make machines that share your work ethic. Sullair portables get the job done with the innovations you want: compact design for enhanced maneuverability and improved fuel efficiency for extended run times.

SULLAIR PORTABLE AIR POWER EQUIPMENT

Your Complete Resource for Portable Air Power Solutions

Inside Your Comprehensive Guide:

- Detailed specs for products in our portable line
- Standard features and additional options for each model
- Description of available air tools
- Air consumption altitude multipliers, pressure loss calculators and other key tools
- Information on the Sullair Certified REMAN program

185 FAMILY

Rotary Screw Compressor — Tier 4 Final



THE SULLAIR 185

185 cfm at 100 psig — 5.2 m³/min at 7 bar



THE SULLAIR 185

Featuring Single Hose Reel



THE SULLAIR 185

Featuring Double Hose Reel



THE SULLAIR 185 DLQ

Compact, Maneuverable and Efficient Package

- Available with or without highway towable running gear
- Efficient Sullair 14-series air end with integrated leak-free design and direct drive
- LED tail and turn lights standard
- Compressor discharge temperature, low fuel shut down, and air filter maintenance indicators standard
- 27 gallon onboard fuel tank for extended operation — up to 10 hours
- Independent rubber torsion suspension
- Axle offers convenient wheel bearing lubrication through zerk fittings
- 3" square drawbar including adjustable height hitch and screw jack with pad
- Transport security chains
- Pneumatic inlet valve and unloaded starting

Corrosion Resistant Clam Shell Canopy

- Canopy opens fully with gas assist springs
- Serviceable components within easy reach, simplified routine maintenance
- Galvanneal sheet metal with composite end caps and fenders
- Stainless steel hinges and latches, plated fittings and hardware
- Durable, baked-on powder coat finish

Curbside Controller with Gauge and LCD Graphic Display include:

- Discharge pressure and temperature
- Ambient air temperature
- Engine speed
- Hours of operation
- Voltage
- Engine coolant temperature and level
- Fuel level and usage rate
- Fuel pressure and temperature
- Percent engine load
- Engine air temperature
- Engine oil pressure
- Compressor and engine status
- Tachometer
- Engine diagnostic service port

Two-Stage Dry Type Air Filters

- Separate filters for engine and compressor

Dual Fuel Filtration System

- Primary fuel/water separator with transparent bowl and water drain
- Secondary fuel filter

AWF® Compressor Fluid

- All-weather, all-climate fluid

Options

- Brakes
- Cold weather package to -20°F / -29°C
- Hose reels

Warranty

- 1 year standard warranty
- 2 year standard air end warranty
- 5 year or 10,000 hour air end warranty when continuously serviced at the recommended intervals with Sullair AWF compressor fluid and filters
- 2 year or 2000 hour Kubota engine warranty

Clean and Quiet Operation

- Meets US EPA Tier 4 Final emissions requirements
- Meets US EPA sound requirements of 76 dBA @ 7 meters

MODEL	185 (T4F)
PERFORMANCE	
Actual Delivery <i>cfm (m³/min)</i>	185 (5.2)
Rated Pressure <i>psig (bar)</i>	100 (7)
Pressure Range, min <i>psig (bar)</i>	80 (5.5)
Pressure Range, max <i>psig (bar)</i>	125 (8.6)
Fuel Consumption 100% Load <i>gph (l/h)</i>	2.7 (10.2)
Max. Operating Altitude <i>ft (m)</i>	9000 (2743)

ENGINE	
Make & Model	KUB D1803
Operating Speed <i>rpm</i>	2720
Available Power <i>bhp (kW)</i>	49 (36.5)
Displacement <i>in³ (cm³)</i>	111 (1826)
Cooling System Capacity <i>gal (l)</i>	2.75 (10.4)
Engine Oil Capacity <i>qts (l)</i>	7.3 (6.9)
Fuel Tank Capacity <i>gal (l)</i>	27 (102.195)
Electrical System Voltage	12
Battery Rating <i>CCA</i>	1000

COMPRESSOR	
Service Valves <i>No. & (Size)</i>	2 (¾")
Compressor Oil Capacity <i>gal (l)</i>	2.1 (7.9)

DPQ PACKAGE	
Working Weight <i>lbs (kg)</i>	2175 (987)
Dry Weight <i>lbs (kg)</i>	1960 (889)
Length <i>in (mm)</i>	130.8 (3322)
Width <i>in (mm)</i>	59.2 (1504)
Height <i>in (mm)</i>	58 (1473)
Track Width <i>in (mm)</i>	50.9 (1293)
Max Towing Speed <i>mph (km/h)</i>	55 (89)
Axle Rating <i>lbs (kg)</i>	3700 (1678)
Tire Size	ST175/80D13

DLQ PACKAGE — LESS RUNNING GEAR	
Working Weight <i>lbs (kg)</i>	1950 (845)
Dry Weight <i>lbs (kg)</i>	1740 (789)
Length <i>in (mm)</i>	79.3 (2014)
Width <i>in (mm)</i>	40.7 (1034)
Height <i>in (mm)</i>	47.8 (1214)

375 FAMILY

Rotary Screw Compressor — Tier 4 Final



THE SULLAIR 400HH

400 cfm at 200 psig — 11.3 m³/min at 13.8 bar

Available in



THE SULLAIR 375H

375 cfm at 150 psig —
10.6 m³/min at 10.3 bar

Available in



THE SULLAIR 400H

400 cfm at 150 psig —
11.3 m³/min at 13.8 bar

Available in



THE SULLAIR 425H

425 cfm at 150 psig —
12 m³/min at 10.3 bar

Available in

Multi-Piece Canopy

- Easy to replace if damaged
- Easily removed as one assembly for major service
- Exposed, single point lifting bail
- Galvannealed steel with durable, baked-on powder coat

Full Access Service Doors

- Large side doors provide access to engine, oil filters and compressor
- Rear swing door provides direct access to radiator and cooler
- Front swing door provides direct access to battery, electric panel and optional aftercooler
- Service doors feature non-rusting hinges and stainless steel T-type door retainers

Highway Towable Running Gear

- 3" x 5" square drawbar including adjustable height hitch and screw jack with pad
- Quick-change hitch
- Transport security chains
- E-Z lube axle lubrication with electrical brakes and tail lights
- LED tail, turn and clearance lights standard

Curbside Controller with Gauges and LCD Graphic Display include:

- Discharge pressure and temperature
- Ambient air temperature
- Separator restriction
- Aftercooler air temperature
- Engine speed
- Hours of operation
- Voltage
- Engine coolant temperature and level
- Fuel level and usage rate
- Fuel pressure and temperature
- Percent engine load
- Engine air temperature
- Engine oil pressure
- Compressor and engine status
- Tachometer
- Engine diagnostic service port
- High/Low pressure selector valve

0 to 100% Capacity Control

- Pneumatic inlet valve and unloaded starting

Two-Stage Dry Type Air Filters

- Separate filters for engine and compressor, positioned to draw cool outside air

AWF® Compressor Fluid

- All-weather, all-climate fluid

Warranty

- 1 year standard warranty
- 2 year standard air end warranty
- 5 year or 10,000 hour air end warranty when continuously serviced at the recommended intervals with Sullair AWF compressor fluid and filters
- 2 years or 2000 hours manufacturer engine warranty

Quiet Operation

- Meets US EPA tier 4 final emissions requirements
- Meets US EPA sound requirements of 76 dBA @ 7 meters

Model details & specifications inside

See pg 23 for additional information on Aftercooled or Aftercooled and Filtered models available

MODEL	375H (T4F)	400H (T4F)	400HH (T4F)	425H (T4F)
PERFORMANCE				
Actual Delivery <i>cfm (m³/min)</i>	375 (10.6)	400 (11.3)	400 (11.3)	425 (12)
Rated Pressure <i>psig (bar)</i>	100 (6.9)/150 (10.3)	100 (6.9)/150 (10.3)	100 (6.9)/200 (13.8)	100 (6.9)/150 (10.3)
Pressure Range, min <i>psig (bar)</i>	80 (5.5)	80 (5.5)	80 (5.5)	80 (5.5)
Pressure Range, max <i>psig (bar)</i>	175 (12.1)	175 (12.1)	225 (15.5)	175 (12.1)
Fuel Consumption Full Load <i>gal/h (l/h)</i>	5.9 (22.3)	5.9 (22.3)*	7.4 (28)	7.7 (29.1)
Max. Operating Altitude <i>ft (m)</i>	9000 (2743)	9000 (2743)	9000 (2743)	9000 (2743)

ENGINE				
Make & Model	CAT C4.4 (T4F)	CUMMINS QSF3.8 (T4F)	CAT C4.4 (T4F)	CAT C4.4 (T4F)
Operating Speed <i>rpm</i>	2100	2200	1900	2100
Available Power <i>bhp (kW)</i>	122 (91)	130 (97)	157 (117)	157 (117)
Displacement <i>in³ (l)</i>	269 (4.4)	229 (3.8)	269 (4.4)	269 (4.4)
Cooling System Capacity <i>gal (l)</i>	6.9 (26)	6.3 (23.8)	6.9 (26)	6.9 (26)
Engine Oil Capacity <i>qts (l)</i>	8.5 (8)	15.4 (14.6)	12 (11.5)	12 (11.5)
Fuel Tank Capacity <i>gal (l)</i>	65 (246)	65 (246)	65 (246)	65 (246)
Electrical System Voltage	12	12	12	12
Battery Rating <i>CCA</i>	1125	1125	1125	1125
DEF Consumption % of Fuel	2.3%	6%	2.3%	2.3%
DEF Capacity <i>gal (l)</i>	5 (19)	5 (19)	5 (19)	5 (19)

COMPRESSOR				
Service Valves <i>No. & (Size)</i>	2 (¾")	2 (¾")	1 (1½")	2 (¾")
Compressor Oil Capacity <i>gal (l)</i>	8 (30)	8 (30)	8 (30)	8 (30)

DPQ PACKAGE				
Working Weight <i>lbs (kg)</i>	4840 (2195)	4895 (2220)	4840 (2195)	4840 (2195)
Dry Weight <i>lbs (kg)</i>	4200 (1905)	4275 (1939)	4200 (1905)	4200 (1905)
Length <i>in (mm)</i>	156 (3962)	156 (3962)	156 (3962)	156 (3962)
Width <i>in (mm)</i>	77 (1958)	78 (1958)	77 (1958)	77 (1958)
Height <i>in (mm)</i>	76 (1921)	76 (1921)	76 (1921)	76 (1921)
Track Width <i>in (mm)</i>	67 (1702)	67 (1702)	67 (1702)	67 (1702)
Max Towing Speed <i>mph (km/h)</i>	55 (89)	55 (89)	55 (89)	55 (89)
Axle Rating <i>lbs (kg)</i>	5000 (2268)	5000 (2268)	5000 (2268)	5000 (2268)
Tire Size	225/75R15	225/75R15	225/75R15	225/75R15

DLQ PACKAGE — LESS RUNNING GEAR				
Working Weight <i>lbs (kg)</i>	4610 (2092)	4665 (2116)	4610 (2092)	4610 (2092)
Dry Weight <i>lbs (kg)</i>	3970 (1801)	4045 (1835)	3970 (1801)	3970 (1801)
Length <i>in (mm)</i>	101 (2577)	101 (2577)	101 (2577)	101 (2577)
Width <i>in (mm)</i>	59 (1506)	59 (1506)	59 (1506)	59 (1506)
Height <i>in (mm)</i>	64 (1619)	64 (1619)	64 (1619)	64 (1619)

* Non-aftercooled

ELECTRIC PORTABLE

Rotary Screw Compressor



THE SULLAIR E900H
900 cfm at 150 psig — 25.5 m³/min at 10.3 bar
Available in 

- Padlockable Service Doors**
- Large front and side doors provide access to regular service items

- Mounting Options**
- Highway towable tandem axle version includes electric brakes, restraining tow chains, super lube axle system and tail lights
 - Less running gear on mounting rails

- Deluxe Instrument Panel**
- Air pressure gauge
 - Discharge air temperature gauge
 - Separator differential pressure gauge
 - Compressor fluid filter differential pressure gauge
 - High discharge air temperature indicator
 - Main motor overload indicator
 - Fan motor overload indicator
 - Hour meter
 - Motor dehumidifier on/off switch
 - Emergency stop button

- Package Design**
- Two-stage air filters with safety element
 - Industrial-grade cooling system
 - Low-noise, TEFC cooling fan
 - Aftercooler/instrument-quality air filtration

- Motor/Starter**
- TEFC premium efficiency drive motor
 - Positive alignment, flange-mounted configuration
 - Wye-Delta motor starter

- Complete Fluid Containment**
- Remote bulkhead drain valves for all fluids

- 40 to 100% Capacity Control**
- High efficiency rotary screw compressor
 - Automatic pneumatic inlet valve and unloaded starting
 - Capacity is matched to system demand, delivering energy savings at partial-load conditions
 - Broad operating range (80–150 psig)

- AWF® Compressor Fluid**
- All-weather, all-climate fluid

- Warranty**
- 1 year standard warranty
 - 2 year standard air end warranty
 - 5 year or 10,000 hour air end warranty when continuously serviced at the recommended intervals with Sullair AWF compressor fluid and filters

- Quiet Operation**
- Meets US EPA sound requirements of 76 dBA @ 7 meters

Model details & specifications inside

 See pg 23 for additional information on Aftercooled or Aftercooled and Filtered models available

MODEL	E900H
	60 Hz
PERFORMANCE	
Actual Delivery <i>cfm (m³/min)</i>	900 (25.5)
Rated Pressure <i>psig (bar)</i>	100 (6.9)/150 (10.3)
Pressure Range, min <i>psig (bar)</i>	80 (5.5)
Pressure Range, max <i>psig (bar)</i>	150 (10.3)

MOTOR	
Make & Model	Hebei
Operating Speed <i>rpm</i>	1780
Available Power <i>bhp (kW)</i>	214 (160)
Electrical System Voltage	460/3/60

COMPRESSOR	
Service Valves <i>No. & (Size)</i>	1 (1")/1 (2")
Compressor Oil Capacity <i>gal (l)</i>	29 (109.8)
Receiver Tank Volume <i>ft³ (m³)</i>	7.4 (.2)

ETQ PACKAGE — TANDEM AXLE	
Working Weight <i>lbs (kg)</i>	11,780 (5343)
Length <i>in (mm)</i>	194 (4928)
Width <i>in (mm)</i>	83 (2108)
Height <i>in (mm)</i>	94 (2388)
Track Width <i>in (mm)</i>	67 (1702)
Max Towing Speed <i>mph (km/h)</i>	55 (89)
Axle Rating <i>lbs (kg)</i>	8000 (3629)
Tire Size	ST 235/80 R16

ELQ PACKAGE — LESS RUNNING GEAR	
Working Weight <i>lbs (kg)</i>	10,030 (4550)
Length <i>in (mm)</i>	144 (3658)
Width <i>in (mm)</i>	79 (2007)
Height <i>in (mm)</i>	67 (1702)

900XHH/1150XH

Rotary Screw Compressor — Tier 4 Final



THE SULLAIR 900XHH/1150XH
900 cfm at 200–500 psig — 25.5 m³/min at 13.8–34.5 bar
1150 cfm at 200–350 psig — 32.6 m³/min at 13.8–24.1 bar

Towable Design

- Highway towable tandem axle includes electric brakes, wheel chocks and safety chains

Two-Stage Dry Type Air Filters with Safety Element

- Positioned to draw cool outside air

7" Color Sullair Touch Screen Controller

- Discharge pressure and temperature
- Ambient air temperature
- Separator restriction
- Aftercooler air temperature
- Engine speed
- Hours of operation
- Voltage
- Engine coolant temperature
- Engine coolant low-level shutdown
- Fuel level and usage rate
- Fuel pressure and temperature
- Percent engine load
- Engine air temperature
- Engine oil pressure
- Engine boost pressure
- Compressor and engine status

Improved Serviceability

- Double doors on both sides of the compressor
- Serviceable components within easy reach

0 to 100% Capacity Control

- Automatic inlet valve and unloaded starting

HPL 1500 Compressor Fluid

- Improved extreme temperature ambient blend extends lubricant and air end life

Options

- Aftercooled
- Cold weather package to -20°F / -29°C
- Refinery package
- Skid mount (DLQ)

Warranty

- 1 year standard warranty
- 2 year standard air end warranty
- 5 year or 10,000 hour air end warranty when continuously serviced at the recommended intervals with Sullair HPL 1500 compressor fluid and filters
- 2 year or 3000 hour Caterpillar engine warranty

Quiet Operation

- Meets US EPA sound requirements of 76 dBA @ 7 meters

Sullair AirLinx® — a Telematics Solution Providing

- GPS to keep track of your machines via Internet-connected devices
- Fleet management
- Remote monitoring and troubleshooting

Model details & specifications inside

MODEL	900XHH/1150XH
PERFORMANCE	
Actual Delivery <i>cfm (m³/min)</i>	900 (25.5)/1150 (32.6)
Rated Pressure <i>psig (bar)</i>	500 (34.5)/350 (24.1)
Pressure Range, min <i>psig (bar)</i>	200 (13.8)
Pressure Range, max <i>psig (bar)</i>	500 (34.5)
Service Valves <i>No. & (Size)</i>	1 (2" NPT)
Lubricating Compressor Fluid	HPL 1500
Compressor Fluid Capacity <i>gal (l)</i>	30 (114)
Max. Operating Altitude <i>ft (m)</i>	12,000 (3658)
Fuel Consumption Full Load <i>gph (l/h)</i>	24 (90.8)/24.5 (92.7)
Comp. Discharge Shutdown Temp. <i>°F (°C)</i>	300 (149)
Maximum Operating Tilt	15°
Sound Level (U.S. EPA) <i>dba</i>	76
Ambient Capacity <i>°F (°C)</i>	-20 to 120 (-29 to 49)

ENGINE	
Make & Model	Caterpillar C15 Diesel (T4F)
Displacement <i>in³ (l)</i>	928 (15.2)
Cylinders	6
Bore × Stroke <i>in (mm)</i>	5.4 x 6.73 (137 x 171)
Operating Speed <i>rpm</i>	1800
Minimum Idle Speed <i>rpm</i>	1400
Available Power <i>bhp (kW)</i>	540 (403)
Electrical System Voltage	24
Battery Rating <i>CCA</i>	1700
Alternator Rating <i>amp</i>	95
Radiator Capacity <i>gal (l)</i>	21.6 (81.8)
Engine Water Shutdown Temp. <i>°F (°C)</i>	219 (104)
Fuel Tank Capacity <i>gal (l)</i>	249 (943)
DEF Capacity <i>gal (l)</i>	12.8 (48.4)

DTQ PACKAGE — TANDEM AXLE RUNNING GEAR	
Working Weight <i>lbs (kg)</i>	18,980 (8627)
Dry Weight <i>lbs (kg)</i>	17,164 (7802)
Length <i>in (mm)</i>	239 (6071)
Width <i>in (mm)</i>	88 (2235)
Height <i>in (mm)</i>	101 (2565)
Track Width <i>in (mm)</i>	79.2 (2012)
Axle Rating <i>lbs (kg)</i>	9000 (4091)
Tire Size	215/75R17.5
Tire pressure <i>psig (bar)</i>	125 (8.6)
Wheel Size	17.5
Lug Nut Torque <i>lb-ft (N m)</i>	300 (407)

DLQ PACKAGE — LESS RUNNING GEAR	
Working Weight <i>lbs (kg)</i>	17,472 (7942)
Dry Weight <i>lbs (kg)</i>	15,656 (7116)
Length <i>in (mm)</i>	208 (5283)
Width <i>in (mm)</i>	88 (2235)
Height <i>in (mm)</i>	89 (2261)

OFD1550

Oil Free Rotary Screw Compressor — Tier 4 Final



THE OFD1550 TIER 4 FINAL

1550 cfm at 125 psig — 49.3 m³/min at 8.6 bar



- Proven and Durable Package**
- Legendary Sullair DS-18 Two-Stage Air End featuring:
 - High efficiency asymmetrical profile rotors
 - Coated with FDA-approved food-grade PTFE to resist corrosion
 - Timing gear controlled rotor clearances for extended rotor life
 - High-precision bearings with consistent lubrication for improved machine life
 - 110% fluid containment frame
 - Galvannealed steel enclosure with seals to prevent water ingress
 - Multiple lockable service doors provide easy access to virtually all service items

- Powerful Cummins 15I Diesel Engine**
- Meets EPA Tier 4 Final emissions standards
 - Xtra-High Pressure Injection (XPI) Fuel System helps increase fuel economy and performance while decreasing exhaust emissions

1550 cfm at 125 psi with adjustable pressure from 70 to 150 psi on controller screen

- Compact Design**
- Multiple lockable service doors
 - Serviceable components within easy reach
 - Centralized drains

- Extras Included as Standard Features**
- Site-towable with steerable front axle
 - Non-pneumatic tires cover even rough terrain and never go flat
 - Forklift pockets standard for ease of transport
 - Lift bail provides fixed point for overhead lifting
 - Pivoting drawbar allows two-machine loadability on standard flatbed semi trailer
 - Refinery Package
 - Including 110% fluid containment, anti-static belt; non-metallic fan, engine air shut-off valve
 - Cold Weather Package to -20°F / -29°C
 - Includes heavy-duty batteries, 5W30 synthetic engine oil, battery heaters, sump oil heater, ether-assisted start, automatic electro-mechanically controlled louvers
 - Aftercooled and filtered

- Optimum Performance**
- Innovative airflow design
 - Engineered to provide maximum cooling efficiency
 - Hydraulically actuated inlet valve specifically designed to operate even in extreme temperatures

- Ready for Jobsite and Extended Duty Uses**
- 250-gallon onboard fuel system provides ten hours plus runtime
 - Easy-operation valve to connect an external fuel source for extended duty runtime
 - Two-step gear box for optimized pressure ratios and optimal fuel efficiency

- 7" Color Sullair Touch Screen Controller**
- In-depth compressor and engine performance information on demand
 - Rugged touch screen works even when wearing gloves
 - User access passcode
 - Remote start jog feature for easy remote maintenance

- AirLinX® — a Telematics Solution Providing**
- GPS to keep track of your units via Internet-connected devices
 - Fleet management
 - Remote monitoring and troubleshooting capabilities

- Safety Features**
- Air shut-off for overspeed protection
 - Spark Arrestor (DPF) for fire safety

- Warranty**
- 1 year standard warranty
 - 2 year standard air end warranty
 - 5 year or 10,000 hour air end warranty when continuously serviced at the recommended intervals with Sullair AWF compressor fluid and filters
 - 2 year or 3000 hour Cummins engine warranty

Model details & specifications inside

MODEL	OFD1550
PERFORMANCE	
Actual Delivery <i>cfm (m³/min)</i>	1550 (43.89)
Rated Pressure <i>psig (bar)</i>	125 (8.62)
Pressure Range, min <i>psig (bar)</i>	70 (4.8)
Pressure Range, max <i>psig (bar)</i>	130 (9)
Service Valves <i>No. & (Size) Main</i>	1 (3" NPT)
Service Valves, auxiliary	1 (1" NPT)
Operating Ambient Temperature, max/min <i>°F (°C)</i>	115 (46)/-20 (-29)
Max Operating Altitude <i>ft (m)</i>	12,000 (3657)
Fuel Consumption Full Load at 125 psi <i>gph (l/h)</i>	24.6 (93.2)
Comp. Discharge Shutdown Temp. <i>°F (°C)</i>	450 (232)
Maximum Operating Tilt	15°
Sound Level (U.S. EPA) <i>dba</i>	76

ENGINE	
Make & Model	Cummins QSX15 Diesel (T4F)
Displacement <i>in³ (l)</i>	912 (14.9)
Cylinders	6
Bore x Stroke <i>in (mm)</i>	5.4 x 6.7 (137 x 169)
Operating Speed <i>rpm</i>	1840
Minimum Idle Speed <i>rpm</i>	1400
Available Power <i>bhp (kW)</i>	550 (410)
Electrical System Voltage	24
Battery Rating <i>CCA</i>	1450
Alternator Rating <i>amp</i>	110
Radiator Capacity <i>gal (l)</i>	29 (110)
Engine Water Shutdown Temp. <i>°F (°C)</i>	231 (110)
Fuel Tank Capacity <i>gal (l)</i>	250 (946)
DEF Capacity <i>gal (l)</i>	15 (57)

DWQ PACKAGE	
Working Weight <i>lbs (kg)</i>	21,000 (9525)
Dry Weight <i>in (mm)</i>	18,000 (8165)
Length <i>in (mm)</i>	251 (6375)
Width <i>in (mm)</i>	88 (2235)
Height <i>in (mm)</i>	101 (2565)
Track Width <i>in (mm)</i>	80 (2032)
Maximum Towing Speed <i>mph (km/h)</i>	15 (24)
Tire Size	21 x 8-9
Tire Type	Foam Filled
Rim Size	9.00 E-9

1600H

Rotary Screw Compressor — Tier 4 Final



THE SULLAIR 1600H TIER 4 FINAL

1600 cfm at 100 or 150 psig — 45.3 m³/min at 10 bar

Available in 

Towable Design

- Highway towable tandem axle includes electric brakes, wheel chocks and safety chains

Two-Stage Dry Type Air Filters with Safety Element

- Positioned to draw cool outside air

7" Color Sullair Touch Screen Controller

- Discharge pressure and temperature
- Ambient air temperature
- Separator restriction
- Aftercooler air temperature
- Engine speed
- Hours of operation
- Voltage
- Engine coolant temperature
- Engine coolant low-level shutdown
- Fuel level and usage rate
- Fuel pressure and temperature
- Percent engine load
- Engine air temperature
- Engine oil pressure
- Engine boost pressure
- Compressor and engine status

Improved Serviceability

- Double doors on both sides of the compressor
- Serviceable components within easy reach

0 to 100% Capacity Control

- Automatic inlet valve and unloaded starting

AWF® Compressor Fluid

- All-weather, all-climate fluid

Options

- Cold weather package to -20°F / -29°C
- Refinery package
- Skid mount (DLQ)
- Aftercooled and filtered

Warranty

- 1 year standard warranty
- 2 year standard air end warranty
- 5 year or 10,000 hour air end warranty when continuously serviced at the recommended intervals with Sullair AWF compressor fluid and filters
- 2 year/3000 hour Caterpillar engine warranty

Quiet Operation

- Meets US EPA sound requirements of 76 dBA @ 7 meters

Sullair AirLinx® — a Telematics Solution Providing

- GPS to keep track of your machines via Internet-connected devices
- Fleet management
- Remote monitoring and troubleshooting

 See pg 23 for additional information on Aftercooled or Aftercooled and Filtered models available

MODEL	1600H T4F
PERFORMANCE	
Actual Delivery <i>cfm (m³/min)</i>	1600 (45.3)
Rated Pressure <i>psig (bar)</i>	150 (10.3)
Pressure Range, min <i>psig (bar)</i>	80 (5.5)
Pressure Range, max <i>psig (bar)</i>	150 (10.3)
Service Valves <i>No. & (Size) Main</i>	1 (3" NPT)
Service Valves, auxiliary	2 (0.75" NPT)
Lubricating Compressor Fluid	AWF®
Compressor Fluid Capacity <i>gal (l)</i>	40 (151)
Max Operating Altitude <i>ft (m)</i>	12,000 (3658)
Fuel Consumption Full Load <i>gph (l/h)</i>	24 (90.8)
Comp. Discharge Shutdown Temp. <i>°F (°C)</i>	250 (121)
Maximum Operating Tilt	15°
Sound Level (U.S. EPA) <i>dbA</i>	76
Ambient Capacity <i>°F (°C)</i>	-20 to 120 (-29 to 49)

ENGINE	
Make & Model	Caterpillar C15 Diesel (T4F)
Displacement <i>in³ (l)</i>	928 (15.2)
Cylinders	6
Bore × Stroke <i>in (mm)</i>	5.4 x 6.73 (137 x 171)
Operating Speed <i>rpm</i>	1800
Minimum Idle Speed <i>rpm</i>	1400
Available Power <i>bhp (kW)</i>	540 (403)
Electrical System Voltage	24
Battery Rating <i>CCA</i>	1700
Alternator Rating <i>amp</i>	95
Radiator Capacity <i>gal (l)</i>	21.6 (81.8)
Engine Water Shutdown Temp. <i>°F(°C)</i>	219 (104)
Fuel Tank Capacity <i>gal (l)</i>	249 (943)
DEF Capacity <i>gal (l)</i>	12.8 (48.4)

DTQ PACKAGE — TANDEM AXLE RUNNING GEAR	
Working Weight <i>lbs (kg)</i>	19,085 (8657)
Dry Weight <i>in (mm)</i>	17,269 (7833)
Length <i>in (mm)</i>	239 (6071)
Width <i>in (mm)</i>	88 (2235)
Height <i>in (mm)</i>	101 (2565)
Track Width <i>in (mm)</i>	79.2 (2012)
Axle Rating <i>lbs (kg)</i>	9000 (4091)
Tire Size	215/75R17.5
Tire Pressure <i>psig (bar)</i>	125 (8.6)
Wheel Size	17.5
Lug Nut Torque <i>lb-ft (N m)</i>	300 (407)

DLQ PACKAGE — LESS RUNNING GEAR	
Working Weight <i>lbs (kg)</i>	17,577 (7973)
Dry Weight <i>in (mm)</i>	15,761 (7149)
Length <i>in (mm)</i>	208 (5283)
Width <i>in (mm)</i>	88 (2235)
Height <i>in (mm)</i>	89 (2261)

Model details & specifications inside

ELECTRIC RENTAL PACKAGES

for backup, replacement or emergency air



THE SULLAIR TSR-20
380–970 cfm at 100–175 psig — 10.8–27.5 m³/min at 7–12 bar



THE SULLAIR TSR-32
784–1600 cfm at 100–175 psig — 22–44.8 m³/min at 7–12 bar



THE SULLAIR DR-13
Class 0 Oil Free Air
428–785 cfm at 100–150 psig — 12.2–21.9 m³/min at 8.5 bar



SULLAIR RDHL CONSTRUCTION AND RENTAL DRYERS
600–1600 scfm — -40°F (-40°C) pressure dew point



Two-Stage TSR-20 and TSR-32
Compressors for Backup, Replacement or Emergency Air

TSR-20 and TSR-32 packages both feature Sullair tandem air ends. Combined with the Sullair spiral valve and standard Variable Speed Drives, these two-stage compressors are highly-efficient in both full-load and part-load operations.

Rugged Package Design

- Self-contained package
- Forklift pockets
- Cold weather protection
- Heavy-duty sound-attenuated enclosure
- Suited for use outdoors
- Easy-access doors
- Oil field skid
- Heavy-duty air inlet filter

User Friendly — Built-in disconnect switch, lockable tamperproof controls, easy access controls, heavy-duty quiet enclosure and draggable skid.

DR-13 Oil Free, Motor Driven Rental Package

Rugged — Oil field skid, single point lift, forklift pockets, stainless steel piping, heavy duty enclosure and spill proof base plate

Versatile — Air-cooled package, suitable for outdoors, cold weather protection to -20°F, self-contained package, noise-attenuated enclosure, TEFC mill and chem motor, reduced voltage starter and sequencing capabilities

User Friendly — Built-in electrical disconnect, fully automated controls, external user connections, lockable doors and RS485 monitoring

RDHL Construction Dryers

- Rugged draggable skid suited for the rental industry
- Pre- and after-filters with DP gauges to assure instrument quality air
- Timer drain on pre-filter
- NEMA 4 electrics enclosure
- Available as 24v DC or 115v AC
- Options include cold weather package, pneumatic controls, pneumatic motor, aftercooler with moisture separator and demand cycle control

Model details & specifications inside

PERFORMANCE								
TSR-20 MODEL	100L	100H	100HH	100XH	125L	125H	125HH	125XH
Capacity <i>acfm (m³/min)</i>	555 (15.7)	485 (13.7)	430 (12.2)	380 (10.8)	685 (19.4)	615 (17.4)	555 (15.7)	495 (14)
Pressure <i>psig (bar)</i>	100 (7)	125 (8.5)	150 (10)	175 (12)	100 (7)	125 (8.5)	150 (10)	175 (12)
	150L	150H	150HH	150XH	200L	200H	200HH	200XH
Capacity <i>acfm (m³/min)</i>	851 (23.1)	740 (21)	680 (19.3)	610 (17.3)	970 (27.5)	900 (25.5)	845 (23.9)	775 (21.9)
Pressure <i>psig (bar)</i>	100 (7)	125 (8.5)	150 (10)	175 (12)	100 (7)	125 (8.5)	150 (10)	175 (12)

PERFORMANCE								
TSR-32 MODEL	200L	200H	200HH	200XH	250L	250H	250HH	250XH
Capacity <i>acfm (m³/min)</i>	1085 (30.3)	970 (27.1)	856 (23.9)	784 (21.9)	1346 (37.6)	1225 (34.3)	1108 (31)	1000 (28)
Pressure <i>psig (bar)</i>	100 (7)	125 (8.5)	150 (10)	175 (12)	100 (7)	125 (8.5)	150 (10)	175 (12)
	300L	300H	300HH	300XH	TSR (FIXED SPEED)			
Capacity <i>acfm (m³/min)</i>	1600 (44.8)	1435 (40.1)	1315 (36.8)	1225 (34.3)	1440 (40.3)			
Pressure <i>psig (bar)</i>	100 (7)	125 (8.5)	150 (10)	175 (12)	125 (8.5)			

PERFORMANCE				
DR-13 MODEL	100	125	150	200
Capacity <i>acfm (m³/min)</i>	428 (12.1)	517 (14.6)	640 (18.1)	785 (22.2)
Full Load Pressure <i>psig (bar)</i>	125 (8.5)	125 (8.5)	125 (8.5)	125 (8.5)
Motor <i>hp (kW)</i>	100 (75)	125 (93)	150 (112)	200 (149)

RDHL DRYER SPECIFICATIONS									
MODEL	FLOW @ 100 psig scfm (m³/min)	FLOW @125 psig scfm (m³/min)	FLOW @ 150 psig scfm (m³/min)	FLOW @ 175 psig scfm (m³/min)	INLET & OUTLET SIZE	WEIGHT WITH DESICCANT lbs (kg)	LENGTH in (mm)	WIDTH in (mm)	HEIGHT in (mm)
RDHL-600	600 (17)	660 (18.7)	720 (20.4)	775 (21.9)	2" FLG	2800 (1270)	50 (1270)	50 (1270)	90 (2286)
RDHL-800	800 (22.7)	880 (24.9)	960 (27.2)	1050 (29.7)	3" FLG	3600 (1632)	70 (1778)	70 (1778)	94 (2387)
RDHL-1000	1000 (28.3)	1100 (31.1)	1200 (34)	1300 (36.8)	3" FLG	4500 (2041)	102 (2590)	75 (1905)	95 (2413)
RDHL-1400	1400 (39.6)	1540 (43.6)	1680 (47.6)	1800 (51)	3" FLG	5200 (2358)	120 (3048)	80 (2032)	95 (2413)
RDHL-1600	1600 (45.3)	1760 (49.8)	1920 (54.5)	2050 (58)	3" FLG	5800 (2630)	120 (3048)	80 (2032)	95 (2413)

SULLAIR AIR TOOLS

Hassle Free Warranty

- Covers manufacturing defects and normal operation wear
- Applies to tools with an invoice date after February 1, 2017
- 6-month warranty includes a new replacement tool for any failed tool
- Sullair Pneumatic Tool warranty periods vary per tool — see warranty policy for specific warranty period information
- To file a claim and order a replacement tool, contact Sullair CRC at crc@sullair.com
- Customer to pay return freight



PAVEMENT BREAKERS

- 30% fewer parts than conventional breakers
- Smoother operation — reduced kickback
- Quieter — direct piston impact on steel shank, rather than tappet, reduces noise level
- Less air consumption
- Variable speed throttle for controlled starting
- No special lubrication required



CHIPPING HAMMERS

- Four bolt backhead reduces handle breakage
- D-handle
- No special lubrication required
- Two air inlet bushings — 7/8" – 24 and 3/8" NPT internal
- Choice of stroke length 2", 3" or 4"
- Choice of bushings — round or hex
- Oval retainers standard. Ball and round collar retainer styles available as accessory
- Rotatable Exhaust Deflector



RIVET BUSTERS

- D-handle standard with inside trigger throttle
- Muffler and screened inlet bushing on D-handle models
- Interchangeable parts within model types reduces inventory
- Variable throttle speed control



DEMOLITION TOOLS

- Smoother operation — reduced kickback
- No special lubrication required
- One-piece housing — leakproof air cushion
- Variable speed throttle for controlled starting
- Exhaust deflector
- Plated finish



ROCK DRILLS

- Throttle safety lever
- Variable drilling speeds
- One piece control for drilling and blowing
- Fewer parts — less maintenance
- Continuous hole cleaning
- Built-in oil reservoir for rotating parts
- Direct rotation or piston — eliminates wear on parts



UTILITY DRILLS

- Built-in oil reservoir for rotating parts
- Air flush blows debris from the hole
- Variable speed throttle
- Squared handle allows drilling close to wall or floor
- Quick change retainer for easy bit changing
- Air inlets 3/8" NPT internal standard



BACKFILL TAMPER

- Greater operator comfort — less fatigue
- Plated finish
- Self lubricating piston rod seals prevent dirt from entering tool
- No packing adjustment required
- Exhaust deflector
- No special lubrication required

Model details & specifications inside

PAVEMENT BREAKERS — STANDARD "T" HANDLE				
MODEL	DESCRIPTION	BORE X STROKE	BPM	CFM
MPB-90A	92 lb 1 1/8" HX x 6" Chuck	2 7/16" x 5 5/32"	1380	62
MPB-90A	92 lb 1 1/4" HX x 6" Chuck	2 7/16" x 5 5/32"	1380	62
MPB-60A	69 lb 1 1/8" HX x 6" Chuck	2 3/32" x 5 5/32"	1360	48
MPB-60A	69 lb 1 1/4" HX x 6" Chuck	2 3/32" x 5 5/32"	1360	48
MPB-35C	39 lb 1" HX x 4 1/4" Chuck	1 3/4" x 5 5/16"	1200	49
MPB-30A	35 1/2 lb 7/8" HX x 3 1/4" Chuck	1 25/32" x 3 25/32"	1850	37
MPB-30A	35 1/2 lb 1" HX x 4 1/4" Chuck	1 25/32" x 3 25/32"	1850	37

CHIPPING HAMMERS — 4 BOLT HANDLE — STANDARD OVAL RETAINER (OPTIONAL RETAINERS AVAILABLE)				
MODEL	DESCRIPTION	BORE X STROKE	BPM	CFM
MCH-2	.680 Round Chuck	1 1/8" x 5"	3600	34
MCH-3	.680 Round Chuck	1 1/8" x 5"	2280	33
MCH-4	.680 Round Chuck	1 1/8" x 4 1/4"	1800	30
MCH-2	.580 HX Chuck	1 1/8" x 5"	3600	34
MCH-3	.580 HX Chuck	1 1/8" x 5"	2280	33
MCH-4	.580 HX Chuck	1 1/8" x 4 1/4"	1800	30

RIVET BUSTERS				
MODEL	DESCRIPTION	BORE X STROKE	BPM	CFM
MRB-8	30 lb 11X Jumbo	1 3/16" x 8"	1140	44
MRB-11	33 lb 11X Jumbo	1 3/16" x 8"	850	50

DEMOLITION TOOLS				
MODEL	DESCRIPTION	BORE X STROKE	BPM	CFM
MDT-22	24 lb "D" Handle 7/8" HX x 3 1/4" Chuck	1 1/2" x 4 1/2"	1450	33
MDT-30	33 lb "D" Handle 11 x Jumbo Shank	1 3/8" x 7 3/8"	1080	37

ROCK DRILLS — DRY BLOW TYPE				
MODEL	DESCRIPTION	BORE X STROKE	BPM	CFM
MRD-9	9 lb 3/4" HX x 3 3/4" Chuck	1 1/32" x 1 1/8"	2800	21
MRD-30	34 lb 7/8" HX x 3 1/4" Chuck	2 3/32" x 1 3/4"	2300	53
MRD-30	34 lb 7/8" HX x 4 1/4" Chuck	2 3/32" x 1 3/4"	2300	53
MRD-40	45 1/2 lb 7/8" HX x 3 1/4" Chuck	2 11/16" x 2 5/8"	1800	80
MRD-40	45 1/2 lb 7/8" HX x 4 1/4" Chuck	2 11/16" x 2 5/8"	1800	80
MRD-40	45 1/2 lb 1" HX x 4 1/4" Chuck	2 11/16" x 2 5/8"	1800	80
MRD-50	48 1/2 lb 7/8" HX x 3 1/4" Chuck	3" x 2 5/8"	1800	99
MRD-50	48 1/2 lb 7/8" HX x 4 1/4" Chuck	3" x 2 5/8"	1800	99
MRD-50	48 1/2 lb 1" HX x 4 1/4" Chuck	3" x 2 5/8"	1800	99

BACKFILL TAMPER				
MODEL	DESCRIPTION	BORE X STROKE	BPM	CFM
MBT-6	40 1/2 lb with 6" Steel Butt	1 1/2" x 5 1/2"	500	32

AIR CONSUMPTION MULTIPLIERS FOR ALTITUDE OPERATION OF PNEUMATIC TOOLS

The air consumption rate of various pneumatic tools is set by manufacturers at sea level conditions. To allow proper application of the tool at altitude, the required free air volume must be increased above the normal rating. The Altitude Multiplier Table gives the multipliers for this increase.

Although pneumatic tools vary somewhat due to design and manufacturer, the use of this multiplier provides reliable values. The table does not take into account any reduction in compressor capacity due to altitude operation or loss of performance due to worn parts.

AIR CONSUMPTION ALTITUDE MULTIPLIER	
ALTITUDE-FEET	MULTIPLIER
0 (Sea Level)	1.000
1000	1.032
2000	1.065
3000	1.100
4000	1.136
5000	1.174
6000	1.213
7000	1.255
8000	1.298
9000	1.343
10,000	1.391
12,500	1.520
15,000	1.665

EFFECT OF ALTITUDE ON OIL COOLED ROTARY SCREW COMPRESSOR CAPACITY AT 100 psig DISCHARGE PRESSURE		
ALTITUDE-FEET	COMPRESSION RATIO	COMPRESSION FACTOR
0 (Sea Level)	7.81	1.0
1000	8.05	1.0
2000	8.35	0.999
3000	8.63	0.997
4000	8.94	0.993
5000	9.27	0.989
6000	9.55	0.983
7000	9.93	0.977
8000	10.26	0.969
9000	10.62	0.961
10,000	11.00	0.951

GUNITE APPLICATIONS

Due to the wide variety of applications, various sizes of guns, types of drive mechanisms and the experience of different nozzlemen, the compressed air requirements for gunite applications cannot be charted.

Air flow requirements must be obtained from the manufacturer of the gunite equipment. Air pressure requirements are generally in the 55–85 psig range. To protect the compressor, only about 70 percent of its rated free air capacity should be used in gunite applications.

AVERAGE GUIDE FOR PORTABLE AIR COMPRESSOR REQUIREMENTS

COMPRESSOR cfm		90	110	185	260	375
MODEL	AIR TOOL	NUMBER OF TOOLS/COMPRESSOR				
MPB-90A	Pavement Breaker	1	1	3	5	8
MPB-60A	Pavement Breaker	1	2	4	6	10
MPB-35C	Pavement Breaker	1	2	4	6	11
MPB-30A	Pavement Breaker	2	3	6	8	12
MBT-6	Tamper	3	4	7	10	16
MRD-50	Rock Drill	–	1	2	2	4
MRD-40	Rock Drill	1	1	2	4	5
MRD-30	Rock Drill	1	2	4	6	9
MCH-2	Chipping Hammer	3	4	7	10	15
MRD-9	Utility Drill	5	6	8	10	14

cfm x Number of Tools Ratio

For operation of several tools with one compressor, use the following table.

Number of Tools	1	2	3	4	5	6	7	8
Factor	1	1.8	2.7	3.4	4.1	4.8	5.4	6.0

Example: To operate eight Model MPB-90A Paving Breakers air for each is 62 cfm; multiplier is 6 x 62 cfm = 372 cfm. Consequently a 375 portable would handle eight breakers.

METRIC-TO-US CONVERSION GUIDE		
TO CONVERT FROM	TO	MULTIPLY BY
bar	lbs/sq in (psig)	14.5038
Kilopascal (kPa)	lbs/sq in (psig)	0.1450
m³/min	cfm	35.3147
liter per minute (l/min)	gallons per minute (gpm)	0.2642
kilometer/hour (km/h)	miles/hour (mph)	0.6214
kilowatt (kW)	horsepower (hp)	1.3405
meter (m)	feet (ft)	3.2808
kilogram (kg)	pounds (lb)	2.2046
cubic centimeter (cm³)	cubic inches (in³)	0.0610
Newton meter (N•m)	pound feet (lb-ft)	0.7376

SULLAIR AIR TOOLS

Applications Guide

SULLAIR MODEL	TOOL CLASS	DESCRIPTION	WEIGHT	APPLICATIONS	CFM @ 90 PSIG
MCH-2/3/4	15#	Chipping Hammer	16–19 lbs	For chipping in horizontal and overhead applications. Also used in industrial applications.	26–33
MRB-8/11	30#	Rivet Buster	30–33 lbs	For cutting and driving large rivets, and heavy duty demo work.	44–50
MPB-30A	30#	Light Pavement Breaker	35.5 lbs	For breaking light concrete and other light jobs.	37
MPB-35A	40#	Light Pavement Breaker	39 lbs	For concrete bridge deck and general demo work.	49
MPB-60A	60#	Medium Pavement Breaker	69.5 lbs	For concrete road breaking and general demo work.	48
MPB-90A	90#	Heavy Pavement Breaker	92 lbs	For difficult, heavy demo work breaking tough, reinforced concrete.	62
MDT-22	20#	Light Demolition Tool	24.7 lbs	For excavation of clay and hardpan. Also for light demolition work in horizontal position.	33.4
MDT-30	30#	Medium Demolition Tool	33 lbs	Medium demolition work.	37
MBT-6	35#	Backfill Tamper	40.5 lbs	For compacting backfill in ditches and trenches. Also used around foundations and poles.	32
MRD-9	9#	Hammer Drill	9 lbs	For construction and maintenance, setting anchors and drilling holes in concrete and bricks.	21
MRD-30	30#	Light Rock Drill	34 lbs	For construction and maintenance, setting anchors and drilling holes in concrete and bricks.	53
MRD-40	40#	Light Rock Drill	45.5 lbs	Drill for depths up to 6 feet and 1½” diameter	80
MRD-50	50#	Medium Rock Drill	48.5 lbs	Drill for depths up to 10 feet and 1¾” diameter.	123

Application information is a general guideline. Actual performance may vary based on the type of material, environment, operator experience and condition of equipment. Tools must have adequate air supply and sharp bits. Drilling depth may be lower in hard rock. Rock drills require additional lubrication; see operators manual for details.

ABRASIVE BLASTING

Abrasive blasting equipment manufacturers recommend air pressures of 90 to 100 psig be used to ensure low-cost, high-production blasting. The abrasive blasting air requirements chart shows the required amount of air to maintain pressures for efficient results. The air flow requirements shown in the chart reflect continuous operation and does not take frictional losses into account. To protect the compressor and to provide additional reserve for a greater air demand as the abrasive nozzle wears, only 70 percent of a compressor's rated output should be used.

The figures shown should only be used as a guide since the actual amount used will depend upon the skills of the individual operator and may vary somewhat from the stated number.

ABRASIVE NOZZLE AIR CONSUMPTION							
APPROXIMATE AIR CONSUMPTION (CFM) PER BLAST NOZZLE							
NOZZLE SIZE	NOZZLE PRESSURE (psig)						
	60	70	80	90	100	120	140
1/8"	14	16	18	20	22	26	30
3/16"	32	36	41	45	49	58	66
1/4"	57	65	72	80	90	105	121
5/16"	90	101	113	125	140	160	185
3/8"	126	145	163	182	220	235	270
7/16"	170	193	215	240	270	315	360
1/2"	230	260	290	320	350	410	470
5/8"	360	406	454	500	550	640	740
3/4"	518	585	652	720	790	925	1060

APPROXIMATE ABRASIVE CONSUMPTION (LBS/HR) PER BLAST NOZZLE							
NOZZLE SIZE	NOZZLE PRESSURE (psig)						
	60	70	80	90	100	120	140
1/8"	90	105	115	130	140	165	190
3/16"	209	230	250	290	320	375	430
1/4"	365	420	460	500	560	660	760
5/16"	575	650	725	825	900	1050	1200
3/8"	840	945	1050	1155	1260	1475	1700
7/16"	1150	1300	1450	1600	1750	2050	2350
1/2"	1460	1660	1850	2000	2250	2650	3000
5/8"	2290	2600	2900	3125	3520	4100	4750
3/4"	3300	3750	4180	4500	5060	5950	6800

The above is presented as general information. For specific information, consult your blast equipment user manual.

FLUIDS

All Sullair portable air compressors come factory-filled with specially formulated lubricants to optimize compressor performance.

SULLAIR AWF® ALL WEATHER FLUID

- AWF is a multiviscosity, highly refined petroleum-based fluid that combines easy cold-weather starting and warmup with exceptional lubrication in hot or severe conditions.
- Designed for extreme weather conditions
 - Long life — up to 1500 hours
 - Excellent for temperature shifts and dirty environments
 - Highly resistant to varnish in hot operating conditions
 - Highly tolerant of water under humid conditions



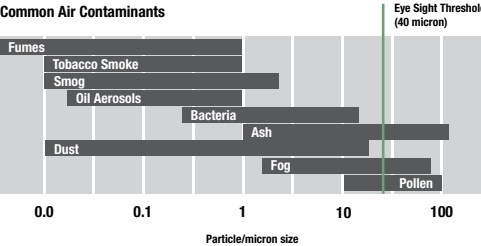
SULLAIR HPL 1500 HIGH PRESSURE PORTABLE COMPRESSOR FLUID

- HPL 1500 is a multi-viscosity, highly refined synthetic hydrocarbon fluid. Specially formulated to optimize performance in severe duty, high pressure applications, HPL 1500 excels in tough applications like oil drilling and pipeline service that demand high performance and extended fluid change intervals.
- Designed for portable compressors 350 psig and above
 - Best-in-class 1500-hour change interval
 - Resists sludge and varnish
 - Starts faster and runs cooler
 - Provides advanced wear and corrosion protection



AF SULLAIR AF MACHINES (AFTERCOOLED AND FILTERED) PRODUCE INSTRUMENT QUALITY AIR ISO 8573-1: CLASS 1.7.1

- Aftercooler and moisture separator
- Primary and secondary filters remove particulate to 0.01 micron and aerosols to 0.01ppm
- Filter warning and shutdown system helps prevent downstream contamination

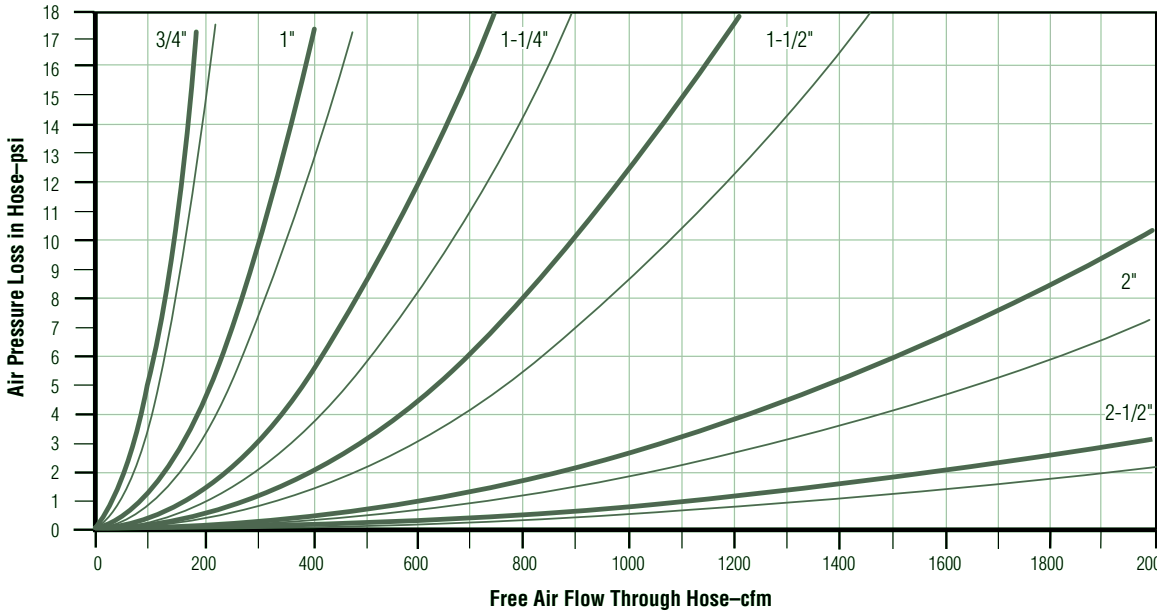


PRESSURE LOSS IN AIR HOSES

To prevent excessive air pressure losses due to friction, air hose size and length should be considered and optimized for the job at hand. The amount of friction, as a result of a volume of air passing through a hose, is dependent upon several factors. The major factors include: air flow rate, hose inlet pressure, air temperature, air hose construction, compressed air dew point and air contaminants. The graph below is an approximation and should only be used as

a guide, since factors like very high air temperatures, high water content, and high contaminant content can combine to increase the air pressure loss values up to 150% of the value shown in the graph. Please note that the graph below represents a 50' length of hose. For shorter or longer lengths of hose, the air pressure loss is proportional to the length (i.e., for 25', one-half of the value shown, for 150', three times the value shown, etc.). Please see examples below graph.

Air Pressure Loss in Hose-50 Foot Length (100 psig Inlet Pressure = / and 150 psig Inlet Pressure = /)



Example #1: A customer has a 185 cfm air compressor equipped with 100' of 3/4" hose to operate a Sullair 90 pound paving breaker. The 90 pound paving breaker requires 62 cfm to operate. How much pressure loss can the customer expect at the tool if the compressor is providing 100 psig inlet pressure?

Answer: Since the air tool requires 62 cfm of air to function, at 62 cfm of air flow through the 3/4" hose, approximately, 2 psig pressure loss is expected in a 50 foot length of 3/4" air hose. Since the customer has 100' of hose, multiply the pressure loss by 2, and the customer can expect 4 psig pressure loss (2 x 2 psig = 4 psig).

Example #2: An abrasive blasting contractor has 200 feet of 2" air hose to be used from the compressor to the blast pot. With the 1500 cfm he will need to supply his blast pot and nozzles, how much pressure loss can the contractor expect in the 2" hose? And, what would his pressure loss be with a 2 1/2" hose? Also, can the contractor use his Sullair 1600H (1600 cfm at 150 psig) with either hose? Which hose would be more efficient and yield lower fuel costs?

Answer (part I): From the chart at 1500 cfm, a 50' hose length of 2" hose will have approximately 6 psig pressure loss. 200' of hose is equivalent to four 50' lengths. Therefore, 4 x 6 psig equals 24 psig (approximate) pressure drop.

Answer (part II): A 2 1/2" air hose would have approximately less than 2 psig pressure loss in a 50' length or less than 8 psig pressure loss in a 200' length (4 x 2 psig = 8 psig approximate pressure drop).

Answer (part III): Yes, the Sullair 1600H has sufficient capacity and pressure capability.

Answer (part IV): The 2" hose requires the air compressor to operate at a minimum of 24 psig higher. Higher pressure at the air compressor means greater horsepower required by the engine which means more fuel. The 2 1/2" hose would be the better economical choice with a much lower pressure loss.



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