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# PORTABLE AIR POWER

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USA

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[Sullair.com](http://Sullair.com)



*Always air. Always there.™*



## **THE SULLAIR ADVANTAGE** *Air compressors built to last*

Since 1965, Sullair has been developing and manufacturing air compressors with proven reliability and durability. The superior performance of our machines is the result of our legendary air end, precision-engineered with leading-edge rotary screw design.



## **SULLAIR PORTABLE AIR POWER EQUIPMENT**

***Your Complete Resource for  
Portable Compressed Air***

*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

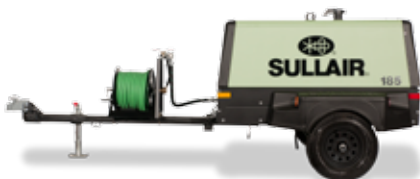
# 185 Family

## Rotary Screw Compressor



### THE SULLAIR 185

185 cfm at 100 psig—5.2 m<sup>3</sup>/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, direct driven air end
- Large tool box
- Oversized fuel tank for extended hours of operation
- Independent rubber torsion suspension
- Axle offers convenient wheel bearing lubrication through zerk fittings
- 3" square drawbar
- Adjustable height hitch
- 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, usage rate and shut down
- 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

### **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
- Diesel engine warranty applies - contact Sullair for more information

### **Clean and Quiet Operation**

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

# 185 Family

## Rotary Screw Compressor

Model	185 (T4F)
<b>GENERAL</b>	
<b>Actual Delivery</b> - <i>cfm (m<sup>3</sup>/min)</i>	185 (5.2)
<b>Rated Pressure</b> - <i>psig (bar)</i>	100 (7)
<b>Pressure Range, min</b> - <i>psig (bar)</i>	80 (5.5)
<b>Pressure Range, max</b> - <i>psig (bar)</i>	125 (8.6)
<b>ENGINE</b>	
<b>Make &amp; Model</b>	Kubota D1803 (T4F)
<b>Operating Speed</b> - <i>rpm</i>	2720
<b>Available Power</b> - <i>bhp (kW)</i>	49 (36.5)
<b>Displacement</b> - <i>in<sup>3</sup> (cm<sup>3</sup>)</i>	111 (1826)
<b>Cooling System Capacity</b> - <i>gal (l)</i>	2.75 (10.4)
<b>Engine Oil Capacity</b> - <i>qts (l)</i>	7.3 (6.9)
<b>Fuel Tank Capacity</b> - <i>gal (l)</i>	27 (102.195)
<b>Electrical System Voltage</b>	12
<b>Battery Rating</b> - <i>CCA</i>	1000
<b>COMPRESSOR</b>	
<b>Service Valves</b> - <i>No. &amp; (Size)</i>	2 (3/4")
<b>Compressor Oil Capacity</b> - <i>gal (l)</i>	2.1 (7.9)
<b>DPQ PACKAGE</b>	
<b>Working Weight</b> - <i>lbs (kg)</i>	2175 (987)
<b>Dry Weight</b> - <i>lbs (kg)</i>	1960 (889)
<b>Length</b> - <i>in (mm)</i>	130.8 (3322)
<b>Width</b> - <i>in (mm)</i>	59.2 (1504)
<b>Height</b> - <i>in (mm)</i>	58 (1473)
<b>Track Width</b> - <i>in (mm)</i>	50.9 (1293)
<b>Max Towing Speed</b> - <i>mph (km/h)</i>	55 (89)
<b>Axle Rating</b> - <i>lbs (kg)</i>	3700 (1678)
<b>Tire Size</b>	ST175/80D13
<b>DLQ PACKAGE</b>	
<b>Working Weight</b> - <i>lbs (kg)</i>	1950 (845)
<b>Dry Weight</b> - <i>lbs (kg)</i>	1740 (789)
<b>Length</b> - <i>in (mm)</i>	79.3 (2014)
<b>Width</b> - <i>in (mm)</i>	40.7 (1034)
<b>Height</b> - <i>in (mm)</i>	47.8 (1214)
<b>PERFORMANCE</b>	
<b>Fuel Consumption 100% Load</b> - <i>gph (l/h)</i>	2.7 (10.2)
<b>Max. Operating Altitude</b> - <i>ft (m)</i>	9000 (2743)



# 260 Family

## Rotary Screw Compressor



### THE SULLAIR 200H

200 cfm at 150 psig—5.7 m<sup>3</sup>/min at 10 bar

Available in **iT4**



### THE SULLAIR 260

260 cfm at 100 psig—  
7.4 m<sup>3</sup>/min at 7 bar

Available in **iT4**



### **Multi-Piece Canopy**

- Easy and inexpensive to replace if damaged
- Easily removed as one assembly for major service
- Exposed, single point lifting bail

### **Ample Service Doors**

- Large side doors provide access to engine, oil filters, compressor and tool compartment
- Rear service panel provides access to rear of machine
- Serviceable components within easy reach
- Routine maintenance is simplified
- Reduced downtime and service cost
- Service doors feature non-rusting hinges and stainless steel T-type door retainers

### **Highway Towable Running Gear**

- 3" square drawbar
- Adjustable height hitch
- Quick-change hitch
- Screw jack with pad
- Transport security chains
- E-Z lube axle lubrication
- Heavy duty leaf spring suspension
- Tail lights

### **Large Curbside Toolbox**

#### **Curbside Instrument Panel**

- Hinged, padlockable cover
- Mechanical air pressure gauge, hour meter, ignition start switch

#### **SSAM – Shutdown System & Annunciation Module**

- Idle warm-up valve
- Optional gauges available
- High/Low pressure selector valve allows dual pressure capability without making mechanical adjustment (available on high pressure models only)

#### **0 to 100% Capacity Control**

- Pneumatic inlet valve and unloaded starting

#### **Protective Shutdown Switches**

- High engine temperature, low engine oil pressure, high compressor discharge temperature, low engine speed and low fuel level

#### **Two-Stage Dry Type Air Filters**

- Separate filters for engine and compressor

#### **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
- Diesel engine warranty applies - contact Sullair for more information

#### **Quiet Operation**

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

# 260 Family

## Rotary Screw Compressor

Model	200H (iT4)	260 (iT4)
<b>GENERAL</b>		
<b>Actual Delivery</b> - <i>cfm (m<sup>3</sup>/min)</i>	200 (5.7)	260 (7.4)
<b>Rated Pressure</b> - <i>psig (bar)</i>	150 (10)	100 (7)
<b>Pressure Range, min</b> - <i>psig (bar)</i>	80 (5.5)	80 (5.5)
<b>Pressure Range, max</b> - <i>psig (bar)</i>	150 (10)	125 (8.5)
<b>ENGINE</b>		
<b>Make &amp; Model</b>	CA3.4 (iT4)	CA3.4 (iT4)
<b>Cylinders</b>	4	4
<b>Operating Speed</b> - <i>rpm</i>	2500	2500
<b>Available Power</b> - <i>bhp (kW)</i>	74 (55)	74 (55)
<b>Displacement</b> - <i>in<sup>3</sup> (cm<sup>3</sup>)</i>	201 (3294)	201 (3294)
<b>Cooling System Capacity</b> - <i>gal (l)</i>	4 (15.1)	4 (15.1)
<b>Engine Oil Capacity</b> - <i>qts (l)</i>	9 (8.5)	9 (8.5)
<b>Fuel Tank Capacity</b> - <i>gal (l)</i>	35 (132.5)	35 (132.5)
<b>Electrical System Voltage</b>	12	12
<b>Battery Rating</b> - <i>CCA</i>	760	760
<b>COMPRESSOR</b>		
<b>Service Valves</b> - <i>No. &amp; (Size)</i>	2 (3/4")	2 (3/4")
<b>Compressor Oil Capacity</b> - <i>gal (l)</i>	3 (11.4)	3 (11.4)
<b>Receiver Tank Volume</b> - <i>ft<sup>3</sup> (m<sup>3</sup>)</i>	1.43 (.04)	1.43 (.04)
<b>DPQ PACKAGE</b>		
<b>Working Weight</b> - <i>lbs (kg)</i>	2640 (1197)	2840 (1288)
<b>Dry Weight</b> - <i>lbs (kg)</i>	2395 (1086)	2515 (1141)
<b>Length</b> - <i>in (mm)</i>	143.3 (3640)	143.3 (3640)
<b>Width</b> - <i>in (mm)</i>	65.4 (1661)	65.4 (1661)
<b>Height</b> - <i>in (mm)</i>	64.9 (1649)	64.9 (1649)
<b>Track Width</b> - <i>in (mm)</i>	55 (1397)	55 (1397)
<b>Max Towing Speed</b> - <i>mph (km/h)</i>	55 (89)	55 (89)
<b>Axle Rating</b> - <i>lbs (kg)</i>	3500 (1588)	3500 (1588)
<b>Tire Size</b>	205/75D15	205/75D15
<b>DLQ PACKAGE</b>		
<b>Working Weight</b> - <i>lbs (kg)</i>	2385 (1082)	2505 (1136)
<b>Dry Weight</b> - <i>lbs (kg)</i>	2140 (971)	2260 (1025)
<b>Length</b> - <i>in (mm)</i>	95.6 (2428)	95.6 (2428)
<b>Width</b> - <i>in (mm)</i>	47.6 (1209)	47.6 (1209)
<b>Height</b> - <i>in (mm)</i>	54 (1372)	54 (1372)
<b>PERFORMANCE</b>		
<b>Fuel Consumption 100% Load</b> - <i>gph (l/h)</i>	3.67 (13.9)	3.67 (13.9)
<b>Max. Operating Altitude</b> - <i>ft (m)</i>	11000 (3353)	11000 (3353)



# 375 Family

## Rotary Screw Compressor

### Tier 4 Final



#### THE SULLAIR 400HH

400 cfm at 200 psig—11.3 m<sup>3</sup>/min at 14 bar

Available in 



#### THE SULLAIR 375

375 cfm at 100 psig—  
10.6 m<sup>3</sup>/min at 7 bar

Also available:

#### THE SULLAIR 375H

375 cfm at 150 psig

Available in 



#### THE SULLAIR 425

425 cfm at 100 psig—  
12 m<sup>3</sup>/min at Bar

Also available:

#### THE SULLAIR 425H

425 cfm at 150 psig

Available in 

### **Multi-Piece Canopy**

- Easy and inexpensive to replace if damaged
- Easily removed as one assembly for major service
- Exposed, single point lifting bail

### **Ample 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 & stainless steel T-type door retainers

### **Highway Towable Running Gear**

- 3" x 5" square drawbar
- Adjustable height hitch
- Quick-change hitch
- Screw jack with pad
- Transport security chains
- E-Z lube axle lubrication
- Electrical brakes and tail lights

### **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 (available on high pressure models only)

### **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
- Diesel engine warranty applies - contact Sullair for more information

### **Quiet Operation**

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

# 375 Family

## Rotary Screw Compressor

Model	375 (T4F)
<b>GENERAL</b>	
Actual Delivery - <i>cfm (m<sup>3</sup>/min)</i>	375 (10.6)
Rated Pressure - <i>psig (bar)</i>	100 (6.9)
Pressure Range, min - <i>psig (bar)</i>	80 (5.5)
Pressure Range, max - <i>psig (bar)</i>	125 (8.6)
<b>ENGINE</b>	
Make & Model	CATC4.4 (T4F)
Operating Speed - <i>rpm</i>	1900
Available Power - <i>bhp (kW)</i>	115 (86)
Displacement - <i>in<sup>3</sup> (cm<sup>3</sup>)</i>	269 (4408)
Cooling System Capacity - <i>gal (l)</i>	6.9 (26)
Engine Oil Capacity - <i>qts (l)</i>	8.5 (8)
Fuel Tank Capacity - <i>gal (l)</i>	65 (246)
Electrical System Voltage	12
Battery Rating - <i>CCA</i>	1125
DEF Consumption - <i>% of Fuel</i>	2.3%
DEF Capacity - <i>gal (l)</i>	5 (19)
<b>COMPRESSOR</b>	
Service Valves - <i>No. &amp; (Size)</i>	2 (3/4")
Compressor Oil Capacity - <i>gal (l)</i>	8 (30)
<b>DPQ PACKAGE</b>	
Working Weight - <i>lbs (kg)</i>	4840 (2196)
Dry Weight - <i>lbs (kg)</i>	4200 (1906)
Length - <i>in (mm)</i>	156 (3962)
Width - <i>in (mm)</i>	78 (1981)
Height - <i>in (mm)</i>	76 (1930)
Track Width - <i>in (mm)</i>	67 (1702)
Max Towing Speed - <i>mph (km/h)</i>	55 (89)
Axle Rating - <i>lbs (kg)</i>	5000 (2268)
Tire Size	225/75R15
<b>DLQ PACKAGE</b>	
Working Weight - <i>lbs (kg)</i>	4610 (2092)
Dry Weight - <i>lbs (kg)</i>	3970 (1801)
Length - <i>in (mm)</i>	101 (2577)
Width - <i>in (mm)</i>	59 (1506)
Height - <i>in (mm)</i>	64 (1619)
<b>PERFORMANCE</b>	
Fuel Consumption @ full load - <i>gph (l/h)</i>	5.2 (19.66)
Max. Operating Altitude - <i>ft (m)</i>	9,000 (2,743)



See pg 37 for additional information on  
Aftercooled or Aftercooled & Filtered models available

375H (T4F)	400HH (T4F)	425 (T4F)	425H (T4F)
375 (10.6)	400 (11.3)	425 (12)	425 (12)
150 (10.3)	200 (13.8)	100 (6.9)	150 (10.3)
80 (5.5)	80 (5.5)	80 (5.5)	80 (5.5)
175 (10.3)	225 (13.8)	125 (8.6)	175 (10.3)
CATC4.4 (T4F)	CATC4.4 (T4F)	CATC4.4 (T4F)	CATC4.4 (T4F)
2100	1900	2100	2100
122 (91)	157 (117)	122 (91)	157 (117)
269 (4408)	269 (4408)	269 (4408)	269 (4408)
6.9 (26)	6.9 (26)	6.9 (26)	6.9 (26)
8.5 (8)	12 (11.5)	8.5 (8)	12 (11.5)
65 (246)	65 (246)	65 (246)	65 (246)
12	12	12	12
1125	1125	1125	1125
2.3%	2.3%	2.3%	2.3%
5 (19)	5 (19)	5 (19)	5 (19)
2 (3/4")	1 (1 1/2")	2 (3/4")	2 (3/4")
8 (30)	8 (30)	8 (30)	8 (30)
4840 (2196)	4840 (2196)	4840 (2196)	4840 (2196)
4200 (1906)	4200 (1906)	4200 (1906)	4200 (1906)
156 (3962)	156 (3962)	156 (3962)	156 (3962)
78 (1981)	78 (1981)	78 (1981)	78 (1981)
76 (1930)	76 (1930)	76 (1930)	76 (1930)
67 (1702)	67 (1702)	67 (1702)	67 (1702)
55 (89)	55 (89)	55 (89)	55 (89)
5000 (2268)	5000 (2268)	5000 (2268)	5000 (2268)
225/75R15	225/75R15	225/75R15	225/75R15
4610 (2092)	4610 (2092)	4610 (2092)	4610 (2092)
3970 (1801)	3970 (1801)	3970 (1801)	3970 (1801)
101 (2577)	101 (2577)	101 (2577)	101 (2577)
59 (1506)	59 (1506)	59 (1506)	59 (1506)
64 (1619)	64 (1619)	64 (1619)	64 (1619)
5.9 (22.30)	7.4 (27.97)	6.0 (22.68)	7.7 (29.11)
9,000 (2,743)	9,000 (2,743)	9,000 (2,743)	9,000 (2,743)

# Electric Portable Rotary Screw Compressor



## The Sullair **E900H**

900 cfm at 150 psig—25.5 m<sup>3</sup>/min at 10 bar

Available in 



## Ample 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
- After-cooler / 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 psi)

## 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

# Electric Portable Rotary Screw Compressor

<b>Model</b>	<b>E900H (460/3/60)</b>
<b>GENERAL</b>	
<b>Actual Delivery</b> - <i>cfm (m<sup>3</sup>/min)</i>	900 (25.5)
<b>Rated Pressure</b> - <i>psig (bar)</i>	150 (10.3)
<b>Pressure Range, min</b> - <i>psig (bar)</i>	80 (5.5)
<b>Pressure Range, max</b> - <i>psig (bar)</i>	150 (10.3)
<b>MOTOR</b>	
<b>Make &amp; Model</b>	Hebei
<b>Operating Speed</b> - <i>rpm</i>	1775
<b>Available Power</b> - <i>bhp (kW)</i>	214 (160)
<b>Electrical System Voltage</b>	460/3/60
<b>COMPRESSOR</b>	
<b>Service Valves</b> - <i>No. &amp; (Size)</i>	2 (1")
<b>Compressor Oil Capacity</b> - <i>gal (l)</i>	29 (109.8)
<b>Receiver Tank Volume</b> - <i>ft<sup>3</sup> (m<sup>3</sup>)</i>	7.4 (.2)
<b>ETQ PACKAGE - TANDEM AXLE</b>	
<b>Working Weight</b> - <i>lbs (kg)</i>	11780 (5343)
<b>Length</b> - <i>in (mm)</i>	194 (4928)
<b>Width</b> - <i>in (mm)</i>	83 (2108)
<b>Height</b> - <i>in (mm)</i>	94 (2388)
<b>Track Width</b> - <i>in (mm)</i>	67 (1702)
<b>Max Towing Speed</b> - <i>mph (km/h)</i>	55 (89)
<b>Axle Rating</b> - <i>lbs (kg)</i>	8000 (3629)
<b>Tire Size</b>	ST 235/80 R16
<b>ELQ PACKAGE</b>	
<b>Working Weight</b> - <i>lbs (kg)</i>	10030 (4550)
<b>Length</b> - <i>in (mm)</i>	144 (3658)
<b>Width</b> - <i>in (mm)</i>	79 (2007)
<b>Height</b> - <i>in (mm)</i>	67 (1702)



*See pg 37 for additional information on  
Aftercooled or Aftercooled & Filtered models available*

# Open Frame Family

## Rotary Screw Compressor

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### THE SULLAIR **1300XHH/1525XHD**

1300 cfm at 500 psig-36.8m<sup>3</sup>/min at 34.5 bar

1525 cfm at 350 psig-43.2m<sup>3</sup>/min at 24.1 bar

Available in 

## Package Features

- 765 HP/Tier 2 (US/Europe) Caterpillar engine
- Standard or after-cooled discharge air
- Onboard fuel system with option for less tank
- Engine block heater
- Two-stage, dry-type air filters with safety elements
- 0 to 100% capacity control with automatic inlet valve and unloaded starting
- Sullair HPL 1500 compressor fluid
  - Improved extreme temperature ambient blend extends lubricant and airend life
- Rig-safe construction
  - Engine air intake shut-off valve
  - Engine exhaust spark arrestor/muffler
  - Anti-static belts
  - Non-metallic fans
  - Dielectric grease on electrical connections

## Open-Frame Design

- Heavy-duty, fluid containment frame with remote bulkhead drain valves for all fluids
- Quick connect coupling for remote tank fuel fill
- Single-point lifting bail
- Robust, stainless steel drain lines and ports

## User-Friendly Maintenance

- Quick change compressor and engine air filters and lubricant filters
- Receiver tank lid support (no crane required) for easy compressor separator filter service
- Low profile package design for easier service
- Onboard fuel tank with remote fuel fill connections
- Enhanced cooling system for lower cost coolant maintenance

## Compass Controller Features

- Control gauges and LCD display provide compressor and engine operation information and diagnostic messages with retrievable shutdown history
- Indicator lights for compressor and engine warning/shutdown conditions and low fuel alert
- Rocker type start switch
- Back lighted switches and gauges
- E-stop, auto and remote start capability
- Engine diagnostic service port

## Warranty

- 1-year package, 2-year airend standard warranty
- 5-year extended airend warranty when continuously serviced with HPL 1500 compressor fluid and Sullair air filters at recommended service intervals

# Open Frame Family

## Rotary Screw Compressor

<b>Model</b>	<b>1300XXH/1525XHDL (T2)</b>
<b>GENERAL</b>	
<b>Actual Delivery</b> - <i>cfm (m<sup>3</sup>/min)</i>	1300/1525 (36.8/43.2)
<b>Rated Pressure</b> - <i>psig (bar)</i>	500/350 (34.5/24.1)
<b>Pressure Range, min</b> - <i>psig (bar)</i>	200 (13.8)
<b>Pressure Range, max</b> - <i>psig (bar)</i>	500 (34.5)
<b>ENGINE</b>	
<b>Make &amp; Model</b>	CAT C-18 TTA (T2)
<b>Operating Speed</b> - <i>rpm</i>	1850
<b>Electrical System Voltage</b>	24
<b>Battery Rating</b> - <i>CCA</i>	1375
<b>Available Power</b> - <i>bhp (kW)</i>	765 (571)
<b>Displacement</b> - <i>in<sup>3</sup> (cm<sup>3</sup>)</i>	1105 (18108)
<b>Cooling System Capacity</b> - <i>gal (l)</i>	13 (49.2)
<b>Engine Oil Capacity</b> - <i>qts (l)</i>	36 (34.1)
<b>Fuel Tank Capacity</b> - <i>gal (l)</i>	200 (757.1)
<b>Cylinders</b>	6
<b>COMPRESSOR</b>	
<b>Service Valves</b> - <i>No. &amp; (Size)</i>	1-2 (3")
<b>Compressor Oil Capacity</b> - <i>gal (l)</i>	47.9 (180)
<b>Receiver Tank Volume</b> - <i>ft<sup>3</sup> (m<sup>3</sup>)</i>	12.5 (0.35)
<b>PACKAGE</b>	
<b>Working Weight</b> - <i>lbs (kg)</i>	14940 (6777)
<b>Length</b> - <i>in (mm)</i>	185 (4699)
<b>Width</b> - <i>in (mm)</i>	84 (2121)
<b>Height</b> - <i>in (mm)</i>	89 (2271)
<b>PERFORMANCE</b>	
<b>Max. Operating Altitude</b> - <i>ft (m)</i>	8000 (2440)
<b>Fuel Consumption 100% Load</b> - <i>gph (l/h)</i>	32.1 (121.5)



*See pg 37 for additional information on  
Aftercooled or Aftercooled & Filtered models available*

# Rental Packages for your fleet



## THE SULLAIR TSR-20

380-970 cfm at 100-175 psig-  
10.8-27.5 m<sup>3</sup>/min at 7-12 bar



## THE SULLAIR TSR-32

784-1600 cfm at 100-175 psig-  
22-44.8 m<sup>3</sup>/min at 7-12 bar



## THE SULLAIR DR-13

428-785 cfm at 100-150 psig-  
12.2-21.9 m<sup>3</sup>/min at 8.5 bar



## THE SULLAIR RDHL CONSTRUCTION DRYERS

600-1600 scfm  
-40 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 druggable 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 druggable 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

# Rental Packages for your fleet

## COMPRESSOR PERFORMANCE

<b>TSR-20 Model</b>	<b>100L</b>	<b>100H</b>	<b>100HH</b>
<b>Capacity</b> - <i>acfm (m<sup>3</sup>/min)</i>	555 (15.7)	485 (13.7)	430 (12.2)
<b>Pressure</b> - <i>psig (bar)</i>	100 (7)	125 (8.5)	150 (10)
<b>TSR-20 Model</b>	<b>150L</b>	<b>150H</b>	<b>150HH</b>
<b>Capacity</b> - <i>acfm (m<sup>3</sup>/min)</i>	851 (23.1)	740 (21)	680 (19.3)
<b>Pressure</b> - <i>psig (bar)</i>	100 (7)	125 (8.5)	150 (10)

## COMPRESSOR PERFORMANCE

<b>TSR-32 Model</b>	<b>200L</b>	<b>200H</b>	<b>200HH</b>
<b>Capacity</b> - <i>acfm (m<sup>3</sup>/min)</i>	1085 (30.3)	970 (27.1)	856 (23.9)
<b>Pressure</b> - <i>psig (bar)</i>	100 (7)	125 (8.5)	150 (10)
<b>TSR-32 Model</b>	<b>300L</b>	<b>300H</b>	<b>300HH</b>
<b>Capacity</b> - <i>acfm (m<sup>3</sup>/min)</i>	1600 (44.8)	1435 (40.1)	1315 (36.8)
<b>Pressure</b> - <i>psig (bar)</i>	100 (7)	125 (8.5)	150 (10)

## COMPRESSOR PERFORMANCE

<b>DR-13 Model</b>	<b>100</b>	<b>125</b>	<b>150</b>
<b>Capacity</b> - <i>acfm (m<sup>3</sup>/min)</i>	428 (12.1)	517 (14.6)	640 (18.1)
<b>Full Load Pressure</b> - <i>psig (bar)</i>	125 (8.5)	125 (8.5)	125 (8.5)
<b>Motor-hp (kW)</b>	100 (75)	125 (93)	150 (112)

## RDHL DRYER SPECIFICATIONS

<b>Model</b>	<i>Flow @ 100 psig scfm (m<sup>3</sup>/min)</i>	<i>Flow @ 125 psig scfm (m<sup>3</sup>/min)</i>	<i>Flow @ 150 psig scfm (m<sup>3</sup>/min)</i>
<b>RDHL-600</b>	600 (17)	660 (18.7)	720 (20.4)
<b>RDHL-800</b>	800 (22.7)	880 (24.9)	960 (27.2)
<b>RDHL-1000</b>	1000 (28.3)	1100 (31.1)	1200 (34)
<b>RDHL-1400</b>	1400 (39.6)	1540 (43.6)	1680 (47.6)
<b>RDHL-1600</b>	1600 (45.3)	1760 (49.8)	1920 (54.5)

<b>100XH</b>	<b>125L</b>	<b>125H</b>	<b>125HH</b>	<b>125XH</b>	
380 (10.8)	685 (19.4)	615 (17.4)	555 (15.7)	495 (14)	
175 (12)	100 (7)	125 (8.5)	150 (10)	175 (12)	
<b>150XH</b>	<b>200L</b>	<b>200H</b>	<b>200HH</b>	<b>200XH</b>	
610 (17.3)	970 (27.5)	900 (25.5)	845 (23.9)	775 (21.9)	
175 (12)	100 (7)	125 (8.5)	150 (10)	175 (12)	

<b>200XH</b>	<b>250L</b>	<b>250H</b>	<b>250HH</b>	<b>250XH</b>	
784 (21.9)	1346 (37.6)	1225 (34.3)	1108 (31)	1000 (28)	
175 (12)	100 (7)	125 (8.5)	150 (10)	175 (12)	
<b>300XH</b>	<b>TSR</b> (fixed speed)				
1225 (34.3)	1440 (40.3)				
175 (12)	125 (8.5)				

<b>200</b>	
785 (22.2)	
125 (8.5)	
200 (149)	

<i>Flow @ 175 psig scfm (m<sup>3</sup>/min)</i>	<i>Inlet &amp; Outlet Size</i>	<i>Weight with Desiccant lbs (kg)</i>	<i>Length in (mm)</i>	<i>Width in (mm)</i>	<i>Height in (mm)</i>
775 (21.9)	2" FLG	2800 (1270)	50 (1270)	50 (1270)	90 (2286)
1050 (29.7)	3" FLG	3600 (1632)	70 (1778)	70 (1778)	94 (2387)
1300 (36.8)	3" FLG	4500 (2041)	102 (2590)	75 (1905)	95 (2413)
1800 (51)	3" FLG	5200 (2358)	120 (3048)	80 (2032)	95 (2413)
2050 (58)	3" FLG	5800 (2630)	120 (3048)	80 (2032)	95 (2413)

# Sullair Air Tools



## PAVEMENT BREAKERS

- 50% 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
- Smoother operation
- 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.



## RIVET BUSTERS

- D-handle standard with inside trigger throttle
- Muffler and screened inlet bushing on D-handle models
- Interchange 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

\*Normal oil carryover from the compressor, combined with moisture in the air, will usually provide sufficient lubrication under normal operating conditions.

# Sullair Air Tools

Model No.	Description	Bore & Stroke	BPM	cfm
<b>PAVEMENT BREAKERS – STANDARD “T” HANDLE</b>				
MPB-90A	92 lb 1-1/8" HX x 6" Chuck	2-7/16" x 5-9/32"	1380	62
MPB-90A	92 lb 1-1/4" HX x 6" Chuck	2-7/16" x 5-9/32"	1380	62
MPB-60A	69-1/2 lb 1-1/8" HX x 6" Chuck	2-5/32" x 5-5/32"	1360	48
MPB60A	69-1/2 lb 1-1/4" HX x 6" Chuck	2-5/32" 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	12-5/32" x 32-5/32"	1850	37
MPB-30A	35-1/2 lb 1" HX x 4-1/4" Chuck	12-5/32" x 32-5/32"	1850	37

Model No.	Description	Bore & Stroke	BPM	cfm
<b>PAVEMENT BREAKERS – SUPER SILENT OPTION</b>				
MPB-90AS	94 lb 1-1/8" HX x 6" Chuck	2-7/16" x 5-9/32"	1380	62
MPB-90AS	94 lb 1-1/4" HX x 6" Chuck	2-7/16" x 5-9/32"	1380	62
MPB-60AS	71-1/2 lb 1-1/8" HX x 6" Chuck	2-5/32" x 5-5/32"	1360	48
MPB-60AS	71-1/2 lb 1-1/4" HX x 6" Chuck	2-5/32" x 5-5/32"	1360	48

Model No.	Description	Bore & Stroke	BPM	cfm
<b>CHIPPING HAMMERS - 4 BOLT HANDLE – STANDARD OVAL RETAINER (OPTIONAL RETAINERS AVAILABLE)</b>				
MCH-2	.680 Round Chuck	1-1/8" x 3"	3600	34
MCH-3	.680 Round Chuck	1-1/8" x 3-3/4"	2280	33
MCH-4	.680 Round Chuck	1-1/8" x 4-1/4"	1800	30
MCH-2	.580 Hex Chuck	1-1/8" x 3"	3600	34
MCH-3	.580 Hex Chuck	1-1/8" x 3-3/4"	2280	33
MCH-4	.580 Hex Chuck	1-1/8" x 4-1/4"	1800	30

Model No.	Description	Bore & Stroke	BPM	cfm
<b>RIVET BUSTERS</b>				
MRB-8	30 lb 11X Jumbo	1-3/16" x 8"	1140	44
MRB-11	33 lb 11X Jumbo	1-3/16" x 11"	850	50

Model No.	Description	Bore & Stroke	BPM	cfm
<b>DEMOLITION TOOLS</b>				
MDT-22	24.7 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

Model No.	Description	Bore & Stroke	BPM	cfm
<b>ROCK DRILLS – DRY BLOW TYPE</b>				
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
MRD-40	45-1/2 lb 7/8" HX x 3-1/4" Chuck	2-11/16" x 2-3/8"	1800	80
MRD-40	45-1/2 lb 7/8" HX x 4-1/4" Chuck	2-11/16" x 2-3/8"	1800	80
MRD-40	45-1/2 lb 1" HX x 4-1/4" Chuck	2-11/16" x 2-3/8"	1800	80
MRD-30	34 lb 7/8" HX x 3-1/4" Chuck	2-9/32" x 1-3/4"	2300	53
MRD-30	34 lb 7/8" HX x 4-1/4" Chuck	2-9/32" x 1-3/4"	2300	53
MRD-9	9 lb. 3/4" Round x 3-3/4" Chuck	1-11/32" x 1-3/8"	2800	21

Model No.	Description	Bore & Stroke	BPM	cfm
<b>BACKFILL TAMPER</b>				
MBT-6	40-1/2 lb with 6" Diagonal 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
1,000	1.032
2,000	1.065
3,000	1.100
4,000	1.136
5,000	1.174
6,000	1.213
7,000	1.255
8,000	1.298
9,000	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	Correction Factor
Sea Level	7.81	1.0
1,000	8.05	1.0
2,000	8.35	0.999
3,000	8.63	0.997
4,000	8.94	0.993
5,000	9.27	0.989
6,000	9.55	0.983
7,000	9.93	0.977
8,000	10.26	0.969
9,000	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		125	130	185	260	375
Model	Air Tool	Number of Tools/Compressor				
MPB-90A	Pavement Breaker	2	2	3	4	8
MPB-60A	Pavement Breaker	2	2	4	6	10
MPB-35B	Pavement Breaker	3	3	5	7	11
MPB-30A	Pavement Breaker	4	4	6	8	12
MCD-30A	Clay Digger	4	4	6	8	12
MBT-6	Tamper	4	4	7	10	16
MRD-50	Rock Drill	1	1	2	3	4
MRD-40	Rock Drill	1	1	2	4	6
MRD-30	Rock Drill	2	2	4	6	9
MCH-2	Chipping Hammer	4	4	7	10	15
MRD-9	Utility Drill	6	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 Conversion Factors

To Convert From	To	Multiply By
bar	lbs/sq in (psi)	14.5033
Kilopascal-kPa	lbs/sq in (psi)	0.1450
m <sup>3</sup> /min	cfm	35.3107
liter per minute- l/min	gallons per minute-gph	0.2642
kilometer/hour- km/h	miles/hour-mph	0.6125
kilowatt-kW	horsepower-hp	1.3405
meter-m	feet-ft	3.2808
kilogram-kg	pounds-lb	2.2046
cubic centimeter-cm <sup>3</sup>	cubic inches-in <sup>3</sup>	0.0610
Newton meter-N•m	pound feet-lb-ft	0.7375

# Sullair Air Tools

## Applications Guide

Sullair Model	Tool Class	Description	Weight
MCH-2/3/4	15#	Chipping Hammer	16-18 lbs
MRB-8/11	30#	Rivet Buster	30-33 lbs
MPB-30A	30#	Light Pavement Breaker	35.5 lbs
MPB-35C	40#	Light Pavement Breaker	39 lbs
MPB-60A	60#	Medium Pavement Breaker	69 lbs
MPB-90A	90#	Heavy Pavement Breaker	92 lbs
MDT-22	20#	Light Digger	24 lbs
MDT-30	30#	Medium Demolition	33 lbs
MBT-6	35#	Backfill Tamper	40.5 lbs
MRD-9	9#	Hammer Drill	9 lbs
MRD-30	30#	Light Rock Drill	34 lbs
MRD-40	40#	Light Rock Drill	45.5 lbs
MRD-50	50#	Medium Rock Drill	48.5 lbs

Application information is a general guideline. Actual performance may vary based on the type of material, environment, and operator skill. Performance may be lower in hard rock. Rock drills require additional lubrication; see operators manual for details.

Applications	cfm @ 90 psig
For chipping in horizontal and overhead applications. Also used in industrial applications.	30-34
For cutting and driving large rivets, and heavy duty demo work.	44-50
For breaking light concrete and other light jobs.	37
For concrete bridge deck and general demo work.	49
For concrete road breaking and general demo work.	48
For difficult, heavy demo work breaking tough, reinforced concrete.	62
For excavation of clay and hardpan. Also for light demolition work in horizontal position.	33
Medium to heavy duty demolition work.	37
For compacting backfill in ditches and trenches. Also used around foundations and poles.	32
For construction and maintenance, setting anchors and drilling holes in concrete and bricks.	21
For construction and maintenance, setting anchors and drilling holes in concrete and bricks.	53
Drill for depths up to 6 feet and 1-1/2" diameter	80
Drill for depths up to 10 feet and 1-3/4" diameter.	99

# 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						
	60 psi	70 psi	80 psi	90 psi	100 psi	120 psi	140 psi
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	200	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						
	60 psi	70 psi	80 psi	90 psi	100 psi	120 psi	140 psi
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 1,500 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.

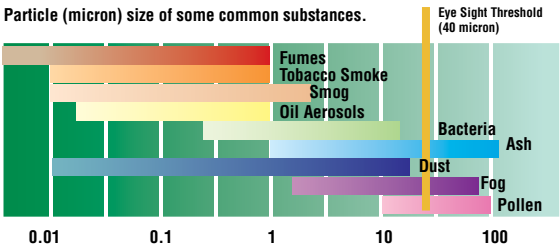
- Designed for portable compressors 350 psi and above
- Best-in-class 1,500-hour change interval
- Resists sludge and varnish
- Starts faster and runs cooler
- Provides advanced wear and corrosion protection



## **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 0.01 ppm
- Filter warning and shutdown system helps prevent downstream contamination

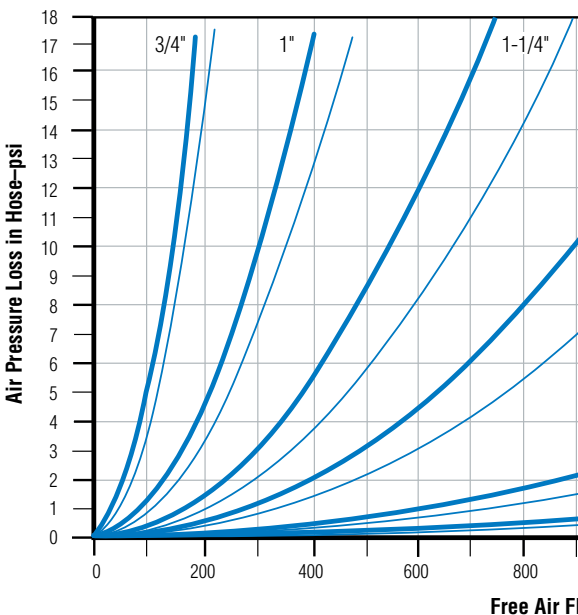
Particle (micron) size of some common substances.



# 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

## Air Pressure Loss in Hose-50 Foot Length (100 psig Inlet Pressure)



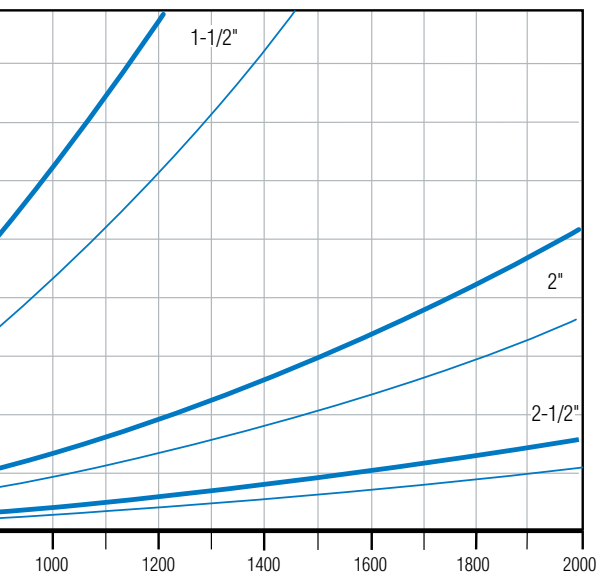
**Example #1:** A customer has a 185 cfm air compressor equipped with 100' of 3/4" hose to operate a Sullair 90 pound paving breaker. The 90 pound paving breaker requires 62 cfm to operate. How much pressure loss can the customer expect at the tool if the compressor is providing 100 psig inlet pressure?

**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 psi 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 psi pressure loss (2 x 2 psi = 4 psi).

**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?

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.

Pressure = / and 150 psig Inlet Pressure = / )



Flow Through Hose—cfm

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

**Answer (part II):** A 2-1/2" air hose would have approximately less than 2 psi pressure loss in a 50' length or less than 8 psi pressure loss in a 200' length (4 x 2 psi = 8 psi 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 psi 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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Sullair Certified REMAN 1600H AF

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Sullair Certified REMAN 900/1150XX HA

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Sullair Certified REMAN 900XHH/1150XHDL

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Sullair Certified REMAN 900H AF

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Sullair Certified REMAN 375H, 375HH, 375HHAF

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## THE SULLAIR CERTIFIED REMAN 1600H

1600 cfm at 150 psi

Available in 



## THE SULLAIR CERTIFIED REMAN 900/1150

900 cfm at 500 psi

1150 cfm at 350 psi



## THE SULLAIR CERTIFIED REMAN 375

375H — 375 cfm at 150 psi

375HH — 375 cfm at 200 psi

Available in 



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Contact your Sullair sales representative

# Portable Compressor Truck Loading Combinations

## 48' Flat Bed

9 x 185



8 x 200H-260



5 x 375-425H



1 x 300HH-425H  
6 x 185



2 x 300HH-425H  
4 x 185



1 x 300HH-425H  
5 x 200H-260



2 x 300HH-425H  
4 x 200H-260



3 x 1300XHH/1525XHDL



- Exterior options (hose reels, etc.) may affect truck load capacities
- Contact factory for truckload sizes for machines with options, or for other combinations

# 48' Flat Bed

1 x 1300XHH/1525XHDL  
5 x 185



1 x 1300XHH/1525XHDL  
4 x 200H-260



1 x 1300XHH/1525XHDL  
1 x 300HH-425H







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