Hankison™

Rental Compressed Air & Air Treatment

For Quality, Clean, Dry Air...
When You Need it...
Where You Need it

hankisonair.com

Hankison™

Dedicated to Excellence

Since 1948, compressed air users around the world have relied on Hankison to provide innovative compressed air treatment solutions for critical applications. Hankison maintains a long standing reputation for manufacturing products that deliver superior performance, time proven reliability and optimal energy savings. Hankison today is the preferred choice for providing clean, dry compressed air for the most challenging industries.

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Uptime Delivered

with Hankison Rental

For over 50 years, the high quality compressed air treatment rental products manufactured by Hankison, have been engineered to make transportation, installation, and operation quick and easy for challenging applications nationwide.

A selection of quality oil-free air compressors and blowers have been added to our rental stable, allowing us to deliver a complete compressed air solution for rental.

With a fleet of pre-packaged compressed air treatment systems and compressors available for immediate shipment throughout North America, we are prepared to respond to your needs, wherever and whenever that may be.

Depend on Hankison Rental the next time you need quality, clean, dry air for emergency service or to meet supplemental or temporary requirements.

Cool...
With An Aftercooler / Separator

- Reduce the temperature of hot compressed air leaving the compressor to safe, usable levels (within 5°F to 20°F of ambient temperature)
- Remove up to 70% of water
- Precondition the air for further drying and filtering

Dry...
with a Desiccant or Refrigeration Dryer

- Eliminate troublesome liquid water from downstream air lines and equipment
- Choose a dryer to produce a dew point temperature below the lowest temperature that your air lines are exposed to (dew point temperature = temperature at which water vapor changes to a liquid

Filter...
with a Packaged Filter System

- One micron air line filter removes solid particles
- High efficiency coalescing type oil removal filter removes oil aerosols (also called oil mist, fog, or smoke) and provides virtually oil free air
- Optional system includes oil vapor removal system... eliminates odor from compressed air... protects products and processes from contamination

Oil-Free...
Air Compressors & Blowers

- Reliable innovation you can trust
- 100% Oil-Free air to ISO 8573-1:2010
- Energy efficient & easy maintenance

Scope of Products

Typical Installations:

- Plant air during outages, turnarounds, stoppages:
- Pneumatic tools, Spray painting, Powder coating, Air conveying
- Pipelines: cleaning, testing and drying
- Glass and plastic molding
- Catalyst regeneration
- Drilling
- Late equipment delivery
- Budgetary needs
- Process air: paper and chemical plants
- Instrument air
- Power plants – ILRT
- Soot blowing
- Temporary extra capacity
- Sandblasting

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Aftercooler / Separator

Features

Reduce compressed air temperatures to within 5°F to 20°F of ambient temperature

- Makes air safe, usable, and capable of further filtering and drying
- Eliminates up to 70% of water

Aftercooler, separator, and automatic condensate drain piped and skid mounted

Maximum working pressures to 350 psig available

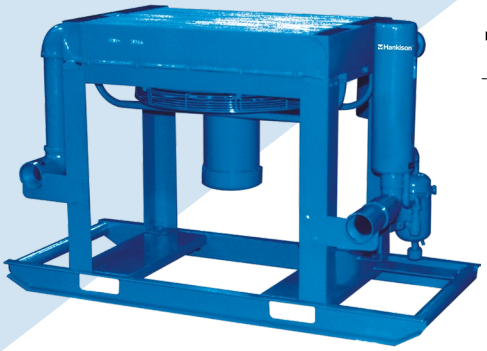
Choice of:

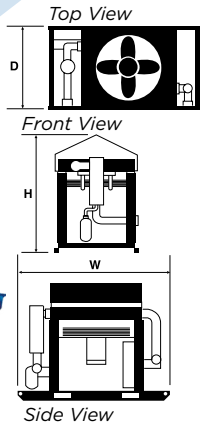
Electrically driven fans:

- Includes automatic interconnect for 3 phase units - determines if incoming power is 230/3 or 460/3 and automatically selects motor leads to match supply voltage

Air driven fans:

- Includes air motor, regulator, lubricator, and relief valve





Specifications

Electrically Driven

MODEL	MOTOR	VOLTAGE	PHASE	FULL LOAD AMPS	IN/OUT CONNECTIONS	DIMENSIONS
	TEFC	HP		110/230 V	NPT	H (IN)
AACE-450	1/2	110/1/60	1	9	2”	66
AACE-1000	2	110/1/60	1	18	3”	66
AACE-1600	1.5	110/1/60	1	18	3“	66
AACE-2500	7.5	230/3/60 460/3/60	1	22/11	4”	62
AACE-3000	10	230/3/60 460/3/60	1	28/14	4”	62

Air Driven

MODEL	AIR MOTOR USEAGE	IN/OUT CONNECTIONS	DIMENSIONS IN			SHIPPING WEIGHT
	SCFM	NPT	H	W	D	LBS
AACA-450	10	2”	46	48	60	400
AACA-1000	20	2”	46	48	60	600
AACA-1600	70	3”	73	48	72	800
AACA-2500	80	4”	66	48	90	1000
AACA-3000	120	4”	73	60	108	1200
AACA-3500	120	4”	73	60	108	1400

Capacity Selection Chart

Maximum scfm @ 5, 10, 15 and 20°F Approach Temperature to Ambient

INLET TEMPERATURE °F	150				200				250			
APPROACH TEMPERATURE °F	5	10	15	20	5	10	15	20	5	10	15	20
AACE-1600& AACA-1600	790	1440	1950	2260	710	1290	1720	1950	660	1200	1600	1860
AACE-2500 & AACA-2500	1220	2220	3000	3470	1090	1980	2680	3100	1035	1880	2500	2870
AACA-3000	1450	2650	3580	4120	1295	2360	3200	3710	1243	2260	3000	3450

Above capacities are based on 80 to 125 psig operating pressures. Maximum pressure drop is less than 3 psi.

Aftercooler / Separator / Filter

Features

Aftercooler with air driven fan motor

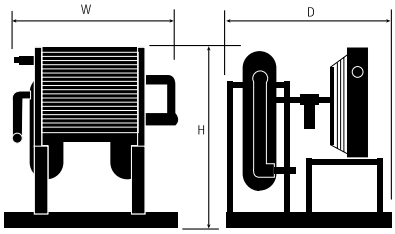
- Lowers temperature of air leaving the compressor to within 10°F to 15°F of ambient temperature
- Eliminates 75% of water

Separator/filter

- Two stage filtration
- First stage removes bulk liquids
- Second stage fiber captures solid and liquid particles to 3 micron

Easy to use:

- Mounted on rental skid
- Prepiped with convenient in/out connections
- No power required
- Automatic condensate drains
- Gauges on filters indicate need for element replacement



Back View *Side View*

Applications

For use with portable compressors:

- Construction, Bridge repair, Sandblasting. Painting

For use in industry:

- Manufacturing plants, Refineries, Shipyards, Paper mills and Chemical plants

Specifications

MODEL	CAPACITY SCFM	DIMENSIONS H IN	W IN	D IN	WEIGHT LBS
AFC450	450	53	46	36	675
AFC750	750	68	48	60	675
AFC1000	1000	73	48	72	950
AFC1600	1600	73	48	72	1000

Aftercooler / Filter Package

Obtain Oil Free Air with Lubricated Compressors

Includes

Aftercooler with air driven fan motor

- Lowers temperature of air leaving the compressor to within 10°F to 15°F of ambient temperature
- Eliminates 80% of water

Separator/filter

- Removes bulk liquids
- Prefilters the air for finer filtration
- Large in depth bed eliminates heavy particulate load
- Gauges on filters indicate need for service

High efficiency oil removal filter

- Removes oil aerosols 0.01 micron and larger
- Remaining oil content: 0.008 ppm w/w

Easy to use

- Mounted on rental skid
- Prepiped with convenient in/out connections
- No power required
- Automatic condensate drains

Applications

For use with portable compressors:

- Construction, Bridge repair, Sandblasting and Painting

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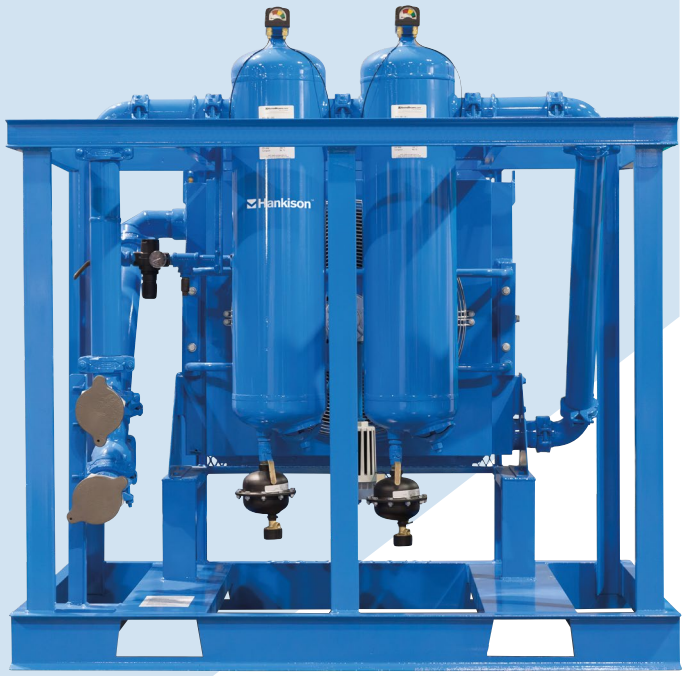
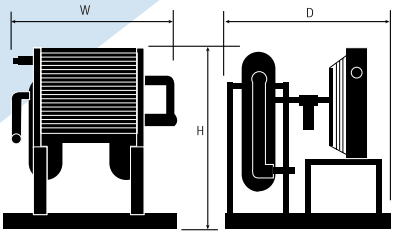




Back View *Side View*

Specifications

MODEL	CAPACITY SCFM	DIMENSIONS H IN	DIMENSIONS W IN	DIMENSIONS D IN	WEIGHT LBS
ACFS450	450	53	46	36	675
ACFS750	750	68	48	60	675
ACFS1000	1000	73	48	72	950
ACFS1600	1600	73	48	72	1000

Filter Packages

Compressed Air as Clean as you Need it

Operation

Air enters the compressor intake, with it solid particulate, gaseous hydrocarbons, and water vapor. Inside the compressor, oil aerosols, vapors, and solid wear particles are added to the compressed air stream. As air passes through aftercoolers and air lines downstream, oil and water vapors condense into liquid aerosols and droplets. The result is solid, liquid, and vapor contaminants in your compressed air system, which, if not removed, reduce pneumatic equipment service life, cause air tools, motors and cylinders to operate inefficiently, contaminate products processes, foul instruments and control valves.

Packages:

Package 1 – for liquid oil removal

- Air line filter and 0.01 micron coalescing filter
- Removes oil aerosols for virtually oil free air *(remaining oil is in a vapor state)*
- Air Line filter protects high efficiency filter from liquid overloading and solid particulate contamination
- Patented design maintains high oil removal efficiency for the life of the cartridge
- Removes all solid particles 0.01 microns and larger

Typical Applications

- Use with oil-lubricated compressors to produce oil free air for: spray painting, powder coating, blow molding, pneumatic instrumentation, fluid logic, air bearings, pneumatic conveying, food and drug packaging, and electronics manufacturing

Package 2 – for oil vapor removal

- 0.01 micron coalescing filter and activated carbon type oil vapor removal filter
  - Removes oil vapor and other hydrocarbons normally adsorbable by activated carbon (produces vapor concentrations of less than 0.01 ppm w/w)
- Coalescing filter protects carbon bed from liquid contamination
- Final stage of media removes all solid particles 0.01 microns and larger

Typical Applications

- Food and drug industries where compressed air contacts products, for deodorizing compressed air exhausted into confined worker environments and Conditioning gas samples ahead of analytical instruments

***Packages include automatic drains and filter element change out indicators.*

Create your own package... Choose from these

- Separator/filter
  - Removes solid particles, water droplets and oil aerosols three microns (mean diameter) and larger
  - Protects downstream equipment from damage or malfunction
  - Designed for use at locations where large liquid loads are present (downstream of aftercoolers, etc.)
- Air line filter
  - Removes solid particles, water droplets and oil aerosols one micron (mean diameter) and larger
  - Protects downstream equipment from damage or malfunction
- Coalescing type oil removal filter
  - Removes liquid aerosols (specifically oil) 0.01 microns and larger
  - Protects downstream instruments, equipment, products and processes from oil aerosol contamination
- Oil vapor removal filter
  - Removes gaseous oil and various other hydrocarbon vapors
  - Removes offensive odors; prevents contamination of products and processes

Specifications

MODEL	CAPACITY @ 100 PSIG SCFM	IN/OUT CONNECTIONS PSIG	DIMENSIONS IN H	W	D	WEIGHT LBS
FS375	375	3" NPT	44	19	24	125
FS700	700	3" NPT	66	48	68	275
FS1600	1600	3" NPT	66	48	90	400

Desiccant Dryer Packages

For Dew Points of -40°F and -100°F

Features

- Mounted particulate and oil removal prefilters c/w automatic condensate drains and a one micron afterfilter - no field installation of filters required
- Heavy duty frame with lifting lugs and fork lift channels for easy handling
- NEMA 4, 115/1/60 electrics - suitable for outdoor operation (all pneumatic units available)
- Units can be field adjusted for -40°F or -100°F pressure dew point
- Full instrumentation package provides ready indication of system malfunction
- High pressure models available

Operating Conditions

- Maximum inlet compressed air temperature: 120°F
- Minimum/maximum ambient temperature: 35/120°F standard (-10/120°F with low ambient package installed)

**Transport desiccant dryers on air-ride truck only*

Specifications

MODEL	INLET FLOW SCFM[1]	FLOW OUTLET @ -40°F P.D.P SCFM[1]	FLOW OUTLET @ -100°F P.D.P SCFM[1]	WORKING PRESSURE PSIG	MAX. IN/OUT CONNECTIONS IN	DIMENSIONS H IN	DIMENSIONS W IN	DIMENSIONS D IN	WEIGHT LBS
RDH115	115	98	97	150	1" NPT	90	40	34	650
RDH165	165	141	140	150	1 1/2" NPT	90	40	34	825
RDH260	260	223	220	150	2" NPT	90	42	47	1350
RDH370	370	317	312	150	2" NPT	90	42	60	1650
RDH450	450	385	380	150	2" NPT	92	42	60	1800
RDH590	590	505	498	150	2" NPT	95	50	70	2860
RDH750	750	642	634	150	2 1/2" NPT	97	58	72	3450
RDH930	930	796	786	150	2 1/2" NPT	105	58	72	3800
PDH930G	930	796	786	150	2 1/2" NPT	80	76	73	3500
RDH1130	1130	967	955	150	3" NPT	105	58	72	4300
RDH1350	1350	1156	1141	150	3" NPT	109	58	72	4700
RDH1550	1550	1327	1309	150	3" Boss	100	78	96	5000
RDH1550G	1550	1327	1309	250	3" Boss	79	78	83	5500
RDH2100	2100	1797	1774	150	3" Boss	106	80	73	6900
RDH2100G	2100	1797	1774	150	3" Boss	80	80	73	5750
RDH3000	3000	2567	2534	150	3" Boss	121	86	133	12100
RDH3000G	3000	2567	2534	150	2" x 3" Boss	81	91	115	9200
RDH4100	4100	3465	3445	150	6" FLG	105	91	115	14000
RDH5400	5400	4620	4561	150	6" FLG	123	96	122	16000
RDH5400G	5400	4620	4561	150	4" x 3" Boss	81	91	153	14800
HIGH PRESSURE @ 350 PSIG									
RDHHP495	900	828	818	365	3" NPT	94	78	96	3800
RDHHP715	1300	1196	1186	365	3" NPT	96	78	96	4000
RDHHP1550G	2800	2576	2550	365	3" Boss	79	78	83	6200
RDHHP5200G	9300	8530	8400	365	4" x 3" Boss	81	91	153	19000

[1] Flow shown is based on inlet compressed air at 100 psig and 100°F

Refrigerated Compressed Air Dryers

FLEX Series – 1250 to 1500 scfm (2150 to 2550 m³/h)

Utilizing the latest developments in heat transfer technology, the FLEX Series refrigerated dryers offer an innovative approach to efficiently remove liquid contamination from compressed air. Designed with 4-in-1 heat exchangers and a phase changing material (PCM) possessing high latent heat properties that allow it to stay colder for longer, these air dryers cycle the refrigerant compressor less often than energy-saving designs.

By offering load-matching performance and linear energy savings, the FLEX Series improves productivity and lowers air system power costs. Up to 30% of electricity consumed in a typical manufacturing facility goes towards generating and treating compressed air. However, the FLEX Series provides cost-effective energy savings by matching electrical power consumed in direct proportion to air demand.

Features & Benefits – Better By Design:

- Stainless steel brazed plate 4-in-1 heat exchanger (patent pending), with phase change material reservoir
- No-air-loss, demand drain efficiently removes condensate without loss of compressed air
- High-efficiency, up-flow aluminum air-cooled condenser
- Reliable, semi-hermetic, environmentally friendly refrigerant compressors
- Moisture separator with stainless steel mesh design for the highest separation rates, independent of the flow, volume and speed
- ISO 8573-1 air quality standards and Class 4-5 pressure dew points
- Both pre and after-filtration options to remove solids and oil contaminants from the air stream
- Third-party performance certification and warranties available for an extra measure of protection

Specifications

DRYER MODEL	INLET FLOW		PRESS. DROP	VOLTAGES	INLET/ OUTLET	OP. POWER	DIMENSIONS (H x W x D)	APPROX. WEIGHT
	SCFM	NM³/ H	PSID		IN	KW	IN (MM)	LBS (KG)
FLX 12.5	1250	2150	4.6	460/3/60	FLG 4"	7.60	59 x 20 x 62 (1488 x 1000 x 1572)	1537 (697)
FLX 15.1	1500	2550	3.9	460/3/60	FLG 4"	9.00	59 x 39 x 62 (1488 x 1000 x 1572)	1766 (801)

Capacity Correction Factors

To adjust the dryer capacity for non-standard conditions, use the Capacity Correction Factors (multipliers) from Tables 1, 2 and 3.

Table 1: Inlet Air Pressure

INLET AIR PRESSURE	75 PSIG 5.2 BAR	100 PSIG 6.9 BAR	120 PSIG 8.3 BAR	150 PSIG 10.3 BAR	225 PSIG 15.5 BAR
Multiplier	0.86	1.00	1.04	1.09	1.15

Table 2: Inlet Air Temperature

INLET AIR TEMPERATURE	80˚F/ 27˚C	90˚F/ 32˚C	100˚F/ 38˚C	110˚F/ 43˚C	120˚F/ 49˚C
Multiplier	1.46	1.23	1.00	0.82	0.68

Table 3: Ambient Air Temperature

AMBIENT AIR TEMPERATURE	80˚F / 27˚C	90˚F / 32˚C	100˚F / 38˚C	110˚F / 43˚C	120˚F / 49˚C
Multiplier	1.12	1.06	1.00	0.83	0.68

Industrial Process Chillers

Industrial chillers ranging from 3.5kW – 124 kW

Utilizing cutting-edge technology, our chiller line is specifically designed to rapidly reduce heat to meet your industrial needs. All Hankison chillers are air-cooled with axial fan blades and powder-coated panels, ensuring precise control of chilled water temperature.

Each chiller is mounted on a rugged, painted steel skid for easy site installation and is suitable for outdoor operation under shelter.

Reliable & Efficient Refrigeration Circuit:

- High efficiency rotary or scroll refrigerant compressor
- Copper coaxial evaporator or stainless-steel brazed plates
- Micro channel condenser
- Dehydrator filter
- Flow sight glass with moisture indicator
- Thermostatic expansion valve or electronic expansion valve
- High pressure switch with manual reset
- Low pressure switch with semi-automatic reset
- High- and low-pressure gauges for checks and maintenance (except HPC10)

Frame and Construction

- Mounted on painted steel skid (not-pictured) with fork pockets for easy site installation and structural re-enforcement to withstand rough handling
- Galvanized or externally powder coated steel frame with powder coated panels

Circulating Coolant/Water Circuit

- Atmospheric water tank thermally insulated or closed loop carbon steel tank
- Water gauge, drain valve, water filling nozzle & non-ferrous water circuit
- Thermally insulated electric pump (non-ferrous)
- Water differential pressure switch (HPC10 excluded)
- Continuous water Temp Monitoring

Specifications

Physical Characteristics

CHILLER MODEL	CAPACITY		DIMENSIONS			WEIGHT	LINE SIZE
	TONS	KW	L (in)	W (IN)	H (IN)	LB	INCH
HPC10	1	3.5	28.3	26.4	26.8	203	½"
HPC61	6.1	21.5	39.5	29.6	49.5	562	1"
HPC76	7.6	26.7	36.4	74.4	63.6	838	1 ½"
HPC353	35	124.1	43.5	118.3	78.3	2579	2 ½"

Chilling Performance

CHILLER MODEL	AMBIENT	INLET WATER	OUTLET WATER	FLOW	AIRFLOW	REFRIGERANT
	°	°F	°F	GPM	CFM	
HPC10	77	68	59	3.1	1295	R513A
HPC61	77	68	59	18.0	3237	R513A
HPC76	77	68	59	31.3	10182	R410A
HPC353	77	68	59	124.4	25897	R410A

Chilling Performance

CHILLER MODEL	AMBIENT	INLET WATER	OUTLET WATER	FLOW	AIRFLOW	REFRIGERANT
	°	°F	°F	GPM	CFM	
HPC10	95	54	45	2.3	1295	R513A
HPC61	95	54	45	12.8	3237	R513A
HPC76	95	54	45	23.0	10182	R410A
HPC353	95	54	45	91.2	25897	R410A

Electrical

CHILLER MODEL	INGRESS PROTECTION	MAX INPUT POWER	SUPPLY	TEMP RANGE
		KW	HZ	°F
HPC10	95	54	45	2.3
HPC61	95	54	45	12.8
HPC76	95	54	45	23.0
HPC353	95	54	45	91.2

Hankison™

Aftercooler / Dryer / Filter Package

A Complete Air Treatment System in One Package

Features

- Aftercooler with air driven fan motor
  - *Lowers temperature of air leaving the compressor to within 7.5°F of ambient temperature*
  - *Eliminates 80% of water*
- Prefilter 1 - Separator/filter
  - *Removes bulk liquids*
  - *Prefilters the air for finer filtration*
- Prefilter 2 - High efficiency coalescing type oil removal filter
  - *Removes fine oil droplets (aerosols) and solid particles 0.01 microns and larger*
  - *Oil content after filtration: 0.008 ppm w/w*
- Pressure-swing (heatless) regenerative desiccant dryer
  - *Produces extra dry air (-40°F or -100°F pressure dew point)*
  - *Efficient design minimizes purge air requirements*
- Afterfilter - 1 micron particulate filter
  - *Removes desiccant fines*
  - *Indepth media allows long element life*

Easy to use

- Mounted on sled type skid with lifting lugs and forklift channels
- Prepiped with convenient in/out connections
- Dryer runs on 12VDC (allows power to be supplied by portable compressor) - 115VAC optional
- Automatic condensate drains
- Gauges on filters indicate need for element replacement
- Dryer control panel includes alarms and built-in diagnostic capabilities

Applications

- Metalworking plants, Refineries, Shipyards, Paper mills, Chemical plants, Electronics manufacturing, Food and drug (packaging), Spray painting, Powder coating, Blow molding, Pneumatic instrumentation, Nitrogen generation, Process air

For use with portable compressors:

- Construction, Bridge repair, Sandblasting, Painting, Pipeline dehydration

Specifications

MODEL	CAPACITY @ 100 PSIG	WORKING PRESSURE	DIMENSIONS			WEIGHT
	SCFM	PSIG	H	W	D	LBS
				IN		
RDH260GAC	185 to 260	250	82	50	69	1500
RDH450GAC	260 to 500	250	82	50	69	2200
RDH750GAC	600 to 800	150	80	75	71	3600
RDH930GAC	800 to 1000	150	80	75	71	3800
RDH1550AC	1000 to 1600	150	97	73	81	6000
RDH1550GAC	1000 to 1600	250	87	78	83	6000
HIGH PRESSURE AFTERCOOLER / REGENERATIVE DESICCANT DRYER PACKAGE						
RDHHP715AC	1300	350	96	78	96	5000
RDHHP1550AC	2800	350	87	78	83	7000

Air Treatment Refurbishment

Make Your Equipment Look & Operate as New!

Hankison offers three refurbishment levels that will extend the useful life of your equipment.

Full inspection and repair results in better equipment performance.

3 Levels of SERVICE

Level 1: Preventative Maintenance

- Full inspection and evaluation of the unit's condition
- Run tested for operation
- If additional work is required, a quotation will be provided

Level 2: Equipment Repair

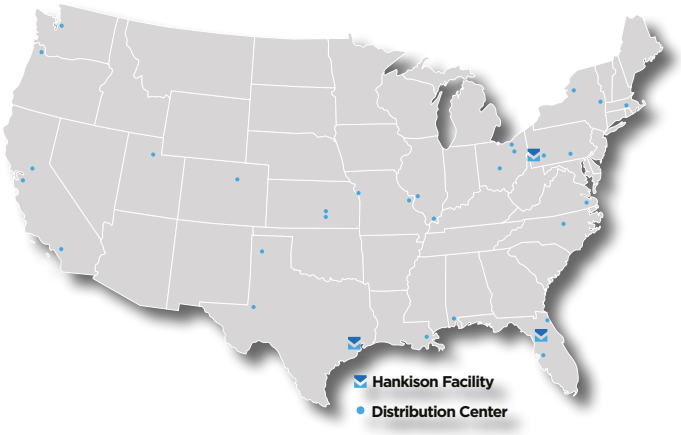
- Level 1 Service, plus:
- Valve and actuator replacement
- Filtration package inspection and element replacement
- Replace control board and rewire
- Full desiccant change-out
- Use of genuine OEM parts

Level 3: Full Refurbishment

- Level 1 & 2 Service, plus:
- Complete component replacement
- Sand blast and repaint entire dryer
- Re-tag equipment for identification
- Structural changes to piping or filtration package - upon request

Three Refurbishment Centers

- Houston, TX (Level 1-3)
- Washington, PA (Level 1-3)



Before & After

Portable Compressed Air Treatment System

A complete portable single tower deliquescent drying package

Blasting contractors know that dry compressed air is the key to superior surface preparation, and with re-work due to rusting or corrosion being costly, it's essential to do the job right the first time. The Blast Pak PRO is a complete compressed air drying system in the form of a portable, single-tower deliquescent drying package engineered specifically for blasting and painting contractors. It works by cooling hot and wet air discharged from the compressor, condensing it before saturating it with a vapour and passing it through the drying vessel. Here, an efficient Dry-O-Lite desiccant cuts the humidity of the air approximately in half before transporting it to an after-filter to trap any fine particles in the airflow.

With its innovative plug-n-play design with an after-cooler, filter and dryer fully integrated, it delivers clean, dry, compressed air with no electricity required. It's also available in multiple sizes to suit your exact needs and is a completely portable skid mounted system, making it ideal for a range of applications, including painting, rentals, rail yards and mobile abrasive blasting.

Features & Benefits – The Next Generation Portable Compressed Air Treatment System

- All-in-one portable and skid mounted pre-assembled package for complete flexibility
- No electricity required due to innovative Plug-n-Play design
- Increase productivity
- 250-1600 SCFM range, conveniently aligned with common portable diesel compressor sizes
- Low-pressure drop of <5 PSID
- F200 filter and muffler to eliminate oil residue from the air motor and reduced dBA levels for cleaner, quieter operation
- Large air motor lubricator bowl to reduce maintenance and ensure longer air motor life (PRO 25-PRO75)

Standard Equipment:

- ASME Code Deliquescent Dryer Vessel
- Protective rock guard above aftercooler
- Air motor for after-cooler
- Filter Regulator Lubricator
- Particulate after-filter
- Open frame fork list skid
- 2 Step Carboline exterior paint
- 2 Step interior paint system
- Four point lifting lugs & Tie downs
- Two dryer sight windows for desiccant viewing
- Manual drain valves
- Initial fill of Dry-O-Lite desiccant

Optional Equipment:

- Pressure gauge kit
- Temperature gauge kit
- Safety relief valve

Specifications

MODEL	PRO PART NO.	AIR MOTOR SCFM	INLET CONN. IN.	OUTLET CONN. IN.	WIDTH IN.	HEIGHT IN.	DEPTH IN.	WEIGHT EMPTY LBS.	DOL PER UNIT LBS.
PRO 25	200 PSIG	22	1 ½ NPT	1 ½ NPT	48	77	27	700	250
PRO 40	200 PSIG	14	2 NPT	2 NPT	51	77	26	860	400
PRO 50	200 PSIG	27	2 ½ NPT	2 ½ NPT	56	83 ¾	32 ⅞	1275	500
PRO 75	200 PSIG	33	2 ½ NPT	3 NPT	62	88	32 ⅞	1675	750
PRO 100	175 PSIG	70	3 NPT	3 NPT	71 ½	94 ½	43	2100	1000

MODEL	MAXIMUM WORKING PRESSURE	DELI DRYER FLOWS - SCFM (Nm³/hr)*						
		60 PSIG 4.1 BAR	80 PSIG 5.5 BAR	100 PSIG 6.9 BAR	125 PSIG 8.6 BAR	150 PSIG 10.3 BAR	175 PSIG 12.1 BAR	200 PSIG 13.8 BAR
PRO 25	200 PSIG	163	206	250	304	359	413	468
	13.8 Bar	262	331	402	489	577	664	752
PRO 40	200 PSIG	261	330	400	487	574	662	749
	13.8 Bar	419	531	643	783	923	1064	1204
PRO 50	200 PSIG	521	661	800	974	1149	1323	1497
	13.8 Bar	838	1062	1286	1567	1847	2127	2408
PRO 75	200 PSIG	782	991	1200	1462	1723	1985	2246
	13.8 Bar	1256	1593	1929	2350	2770	3191	3611
PRO 100	175 PSIG	1042	1321	1600	1949	2297	2646	-
	12.1 Bar	1675	2124	2572	3133	3694	4254	-

*Cooler sized for 180°F inlet, 90°F ambient and 10°F approach (15°F approach on Pro 25) for flows shown at 100 PSIG.

Hankison™

E-Series

Oil-Free Rotary Screw Air Compressors 300 kW

The new E-Series oil- free rotary screw compressors utilize state-of- the- art design features to achieve unparalleled energy efficiency. Uncompromising in the superb reliability you expect from Ingersoll Rand, these compressors provide continuous 100% oil- free air per ISO 8573-1:2010 Class 0. E-series offers an optimized total package for risk free operation at a low total operating cost.

Features

- **100% Oil-Free Air:** Meets ISO 8573-1:2010 Class 0 specifies air quality standards for processes within the food and beverage, pharmaceutical, textile, and electronics industries
- **Energy Efficiency**: Airend features optimized rotor profile that delivers up to 13.5% improved efficiency and best-in-class airflow capacity
- **Enhanced Reliability:** Stainless steel components, dual-vented seals, and precision machined-rotors with advanced Ultra Coat protection ensure trouble-free operation
- **Ease of maintenance:** Reduce your maintenance costs with longer maintenance intervals and patented long life consumables to ensure peak performance with reduced change-out
- **High Ambient Operation:** Long-life components are designed to with stand 46°C maximum ambient temperate. Optional High Ambient package designed to withstand 55°C maximum ambient temperate
- **Total Risk Transfer:** Avoid unplanned downtime and ensure reliability with Package CARE Service Agreement

Electric Oil-Free Air Compressors

Specifications

MODEL	RATED PRESSURE PSIG	NOMINAL POWER HP	CAPACITY (FAD) CFM	DIMENSIONS (L x W x H) INCHES	WEIGHT LBS
E300i-A155	145	400	1598	134 x 85 x 96	12,994
HH400A	150	400	1545	120 x 76 x 96	7496
CSG-130	145	125	457	65 x 78 x 98	5820

Hankison™

Diesel Oil-Free Air Compressor

The portable powerhouse for large projects

The flagship of oil-free portable compressors:

Sophisticated compressed air expertise for a multitude of applications. Economical, innovative and environmentally-friendly, the M500-2 is the perfect choice to provide a continuous supply of quality compressed air, even when maintenance or conversion work is taking place. This compressed air powerhouse is also at home in power stations, in the automotive, food, petrochemical and pharmaceuticals industries, as well as in refineries. The integrated SIGMA CONTROL MOBIL controller adjusts engine speed to deliver the exact volume of air needed for the specific task at hand at pressures between 3.0 and 10.3 bar. Furthermore, the compressed air discharge temperature can be preselected.

- **Delivery volume / Maximum pressure**
  Maximum working pressure is adjustable between 3.0 bar and 10.3 bar. The delivery volume remains proportional, between 38.0 m^3/min at 10.3 bar, 43.3 m^3 at 9.3 bar and 45.8 m^3/min at 3.0 to 6.9 bar.
- **Engine**
  Caterpillar C18 with 429 kW or 447.5 kW, Emissions Stage IIIA, V or Tier 4 final as required.
- **Fuel consumption / Capacity**
  With a full-load consumption of ø 81 l/h, the fuel tank volume is sufficient to last for two operating shifts.
- **Dimensions / Weight**
  Mobile version: 6006 x 2270 x 2772 mm (LxWxH without tow bar)
  Version with skids: 6467 x 2438 x 2730 mm c. 11,800 kg operating weight
- **Compressed air connection**
  1x DN80 + 1x G1 Hot air connection with discharge temperatures up to 240°C

Features

- ✓ SIGMA CONTROL MOBIL
- ✓ Compressed air aftercooler (10K with centrifugal separator)
- ✓ Spark arrester and engine closing valve
- ✓ Closed floor pan
- ✓ Fuel supply can be switched from internal to external
- ✓ GPS / UMTS modem for MOBILAIR fleet management
- ✓ With lifting and lashing eyes and forklift pockets for secure transportation

M500-2 Standard Equipment

SIGMA CONTROL MOBIL

- Pressure adjustment with engine speed regulation
- Adjustable compressed air discharge temperature (10-50 K over ambient; max. +65°C)
- Remote start via radio remote control
- Can be switched from partial load control to DUAL control
- Automatic start / stop (adjustable)
- GPS/UMTS modem

Transportation:

- Auxiliary chassis with parking brake
- Lifting eyes (double-strand hoisting)
- Fully accessible roof with service ladder
- Forklift pockets
- Lashing eyes

Operation:

- Compressed air aftercooler
- Connection to external fuel supply
- Additional 40 l engine oil tank
- Spark arrester and engine shut-off valve
- Closed floor pan

Maintenance:

- Central drainage points for oil and coolant from engine and compressor
- LED interior lighting
- Service doors on each side offer optimum access to all components
- Service openings to roof
- MOBILAIR fleet management

Electrical equipment:

- Heaters for engine coolant, compressor gear oil, hydraulic oil
- Heaters for condensate separator and fuel filter

Diesel Oil-Free Air Compressors Specifications

MODEL	RATED PRESSURE PSIG	NOMINAL POWER HP	CAPACITY (FAD) CFM	DIMENSIONS (L x W x H) INCHES	WEIGHT LBS
M500	150	600	1600	237 x 90 x 110	28,235

Hankison™

Nitrogen PSA System

Onsite Nitrogen Generation

Easily generate nitrogen onsite with the 118NGPLS-SK nitrogen generator and eliminate the hassle of waiting for cylinder or liquid deliveries. The Hankison 118NGPLS-SK is designed for quick installation in your facility, featuring a rugged steel frame that withstands rough handling and fork pockets for easy positioning. It includes coalescing and carbon filters, as well as the necessary tanks. Simply supply dry air and 115V power to the skid, then connect to the nitrogen outlet. The system is factory-tuned to meet your requirements and uses the state-of-the-art PSA process to offer maximum purity. With the Hankison Rental Nitrogen Generator, producing your own nitrogen couldn't be easier.

Pre-Filtration Protection

- **Coalescing High Efficiency Filter (0.01µ particle) –** High Efficiency Oil Removal Filter
- **Activated Carbon Tower (0.003 mg/m³) –** Maximum Incoming Oil Vapor Removal
- **General Purpose Particulate Filter (1.0µ) –** Downstream of the Activated Carbon Tower for dusting protection

Controls & Protection

- On/Off Switch
- Enclosure NEMA 3R (sun-rain shade recommended)
- Re-enforced mounting to withstand rough handling
- SO type electrical cord installed with NEMA 4 male plug (NEMA 4 outlet required to maintain rating)
- Continuous N_2 purity monitoring
  - Displayed as remaining O_2 content on HMI
- Temperature range: -20 – 120 °F , Max 150 psig inlet pressure
- Controls heater and UV protected
- Adjustable purity, within available ranges: 95-99.9% or 99.95-99.999%
  - Must choose purity range prior to shipment

Storage

- 400 gallon, 165 psi dry air receiver tank included
  - Includes isolation valve, ASME Code-stamped safety valve, gauge, manual relief valve
- 400 gallon, 165 psi process nitrogen receiver tank included
  - Includes isolation valve, ASME Code-stamped safety valve, gauge, manual relief valve, and nitrogen sample valve

Frame and Construction

- ASME Section VIII DIV. 1 Stamped Adsorber vessels
- ASME Code Stamped Pressure Relief (One per Vessel)
- Nylon control tubing, copper sample tubing
- Coaxial flow-directing on/off valves, nickel-coated brass
- Pressure compensated flow-controls
- Skid-mounted for easy site installation with fork pockets
- Factory adjustment and testing for stated customer conditions: pressure, purity, and flow

Performance

Performance and air requirement given below for 110 psig / 7.6 barg inlet pressure (Max 150 psig / 10.3 barg). See pressure correction factors below as well.

Nitrogen Production

PURITY	N2@50F SCFM	N2@60F SCFM	N2@70F SCFM	N2@80F SCFM	N2@90F SCFM	N2@100F SCFM	N2@110F SCFM
95%	106	103	101	99	96	94	92
96%	95	93	92	90	89	87	86
97%	90	87	85	82	80	77	75
98%	74	73	71	70	68	67	65
99%	60	59	57	56	55	54	52
99.5%	54	52	51	49	48	46	45
99.9%	41	40	38	37	35	34	33
99.95%	36	35	34	33	31	30	29
99.99%	28	27	25	24	23	22	21
99.995%	24	23	22	21	20	19	19
99.999%	18	17	17	16	15	14	14

Air Consumption, ±5%

PURITY	AIR@50F SCFM	AIR@60F SCFM	AIR@70F SCFM	AIR@80F SCFM	AIR@90F SCFM	AIR@100F SCFM	AIR@110F SCFM
95%	183	183	184	183	183	183	182
96%	170	172	173	174	176	176	177
97%	168	168	167	167	166	165	163
98%	148	149	150	150	151	152	152
99%	130	132	133	134	134	135	135
99.5%	127	128	128	128	128	128	127
99.9%	114	114	115	114	114	113	112
99.95%	108	109	109	109	109	109	108
99.99%	95	97	98	98	98	98	97
99.995%	87	89	91	92	93	93	93
99.999%	75	76	78	79	79	80	79

Pressure Correction Factors

INLET PSIG	N_2 CORRECTION FACTOR	AIR CORRECTION FACTOR
90	0.829	0.829
100	0.916	0.916
110	1.000	1.000
120	1.038	1.038
130	1.068	1.068
140	1.087	1.087
150	1.091	1.091

Hankison™

Multistage Centrifugal Blower

671 Series

Hoffman and Lamson present state-of-the-art technology in Multistage Centrifugal Blowers. This model offers a wide range of design features and incorporates energy efficiency improvements, complying with the strictest operational requirements of a variety of applications. Multistage blowers are ideally suited for operations where a variable flow at constant pressure is required. Hoffman and Lamson are worldwide leaders in Multistage Centrifugal Blower technology with thousands of units installed around the globe.

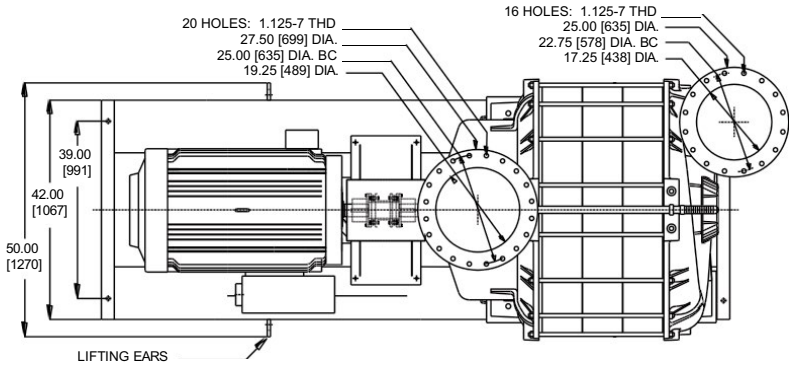
Features

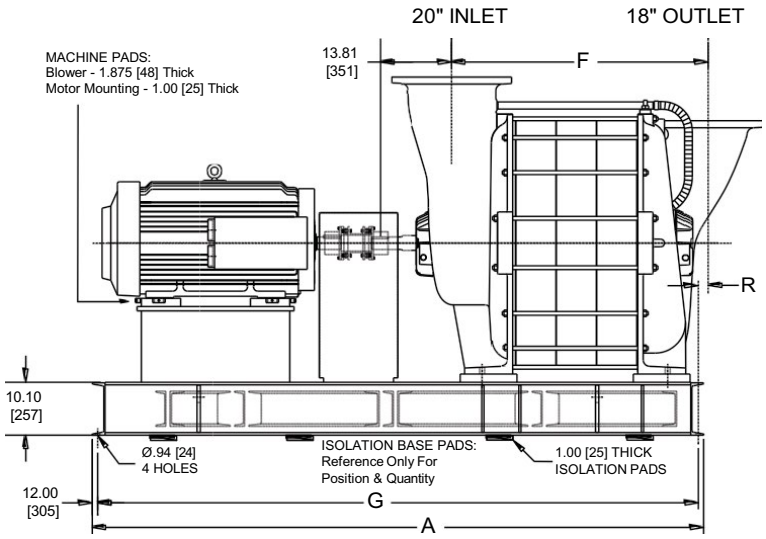
- Number of Stages: 1-7 (60 Hz) 1-8 (50 Hz)
- Inlet Connection: 20" Flange, ANSI 125# Drilling
- Outlet Connection: 18" Flange, ANSI 125# Drilling
- Operating Speed: 3550 RPM (60 Hz), 2925 RPM (50 Hz)
- Casing Pressure: 25 PSIG (1.73 bar)
- Air Seals: Carbon RIng Type
- Bearings: Anti-friction, designed for extended L10 life
- Lubrication: AEON® CF Oil
- Impeller: 29.75 inches (756 millimeters) Diameter (statically balanced)
- Impeller Tip Speed: 463 feet/ second (141 meters/second)
- Drive Type: Direct Coupled (Inlet drive is standard)
- Drive Shaft Diameter: 2.8745 inches (73.03 millimeters)
- Vibration: .235 in/sec. (5.97 mm/sec.) Peak Velocity
- Rotor: Balanced Per ISO 1940, ANSI S2.19

Material Standard

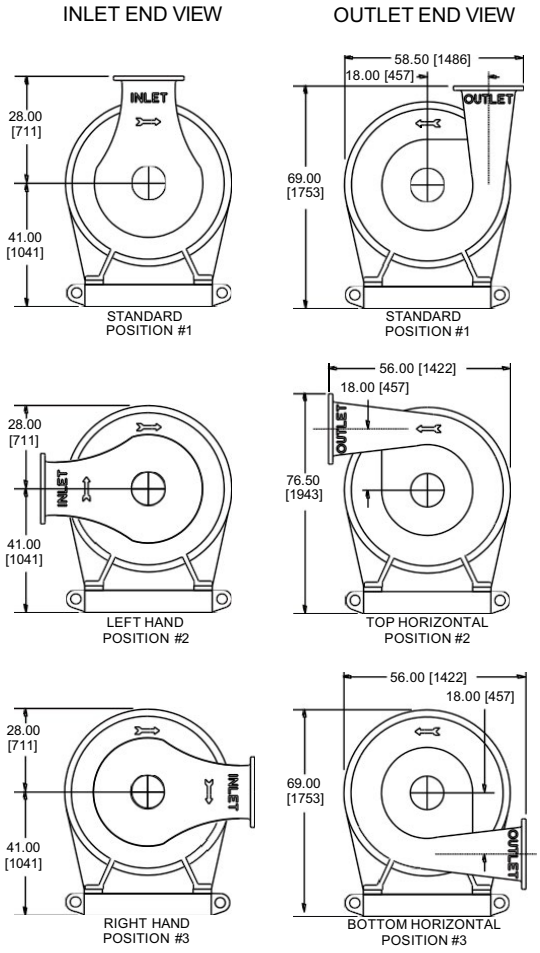
- Casing: ASTM A48 Class 30 Cast Iron - HT200 equivalent
- Bearing Housings: ASTM A48 Class 30 Cast Iron
- Bearing Cap:ASTM A48 Class 30 Cast Iron
- Tie Rods: ASTM F1554 GR.36 Zinc Plated Thrd. Rod
- Carbon Ring Seal: ASTM C695 Fine Grain Molded Graphite
- Joint Sealing: RTV Silicone Compound
- Baffle Rings: ASTM A240 Grade 304 Stainless Steel
- Balance Piston: ASTM A356-T5 Cast Aluminum (3-8 Stage)
- Shaft ASTM: A108 Grade 1045 HRS Stainless Steel Optional
- Impeller ASTM: B26 Cast Aluminum 356-T6 or ASTM 6061- T6 Fabricated Aluminum
- Base & Motor Pedestal: ASTM A36 Hot Rolled Structural Steel
- Isolation Base Pads: Suitable Resilient Material
- Finish: Universal Primer - Acrylic Topcoat

General Arrangement





Flange Orientation



Specifications

MODEL	DIMENSIONAL DATA INCHES [MILLIMETERS]				WEIGHT LB [KG] & INERTIA – LB-FT² [KG-M²]		
	A	F	G	R	PKG. LESS MOTOR	BARE UNIT	WK2
67101	120.00 [3048]	29.000 [737]	117.50 [2985]	2.25 [57]	8,440 [3828]	5,040 [2286]	43 [1.80]
67102	160.00 [4064]	38.125 [969]	157.50 [4001]	2.25 [57]	9,730 [4413]	6,330 [2871]	84 [3.52]
67103	160.00 [4064]	47.250 [1200]	157.50 [4001]	2.25 [57]	11,030 [5003]	7,630 [3460]	124 [5.20]
67104	160.00 [4064]	56.375 [1432]	157.50 [4001]	2.25 [57]	12,320 [5588]	8,920 [4046]	165 [6.91]
67105	169.00 [4293]	65.500 [1664]	166.50 [4229]	2.25 [57]	13,550 [6146]	10,150 [4603]	206 [8.63]
67106	223.00 [5664]	74.625 [1897]	220.50 [5601]	2.25 [57]	15,390 [6980]	11,390 [5166]	247 [10.35]
67107	223.00 [5664]	83.750 [2128]	220.50 [5601]	2.25 [57]	16,650 [7552]	12,650 [5750]	165 [6.91]
67108	223.00 [5664]	92.875 [2359]	220.50 [5601]	2.25 [57]	17.910 [8124]	13,910 [6322]	206 [8.63]

Rental Compressed Air Treatment

For Clean Dry Air...

When You Need it...

Where You Need it

Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region.

Hankison™

Hankison Headquarters
4647 SW 40th Avenue
Ocala, Florida 34474-5788 U.S.A.
Tel.: (800) 379-3711
Email: renthankison@hankisonair.com

Hankison Rental – Washington, PA
100 Commerce Dr., Washington, PA 15301
Tel.: (800) 379-3711
Email: renthankison@hankisonair.com

Hankison Rental – Pasadena, TX
10399 New Decade Drive, Pasadena, TX 77507
Tel.: (800) 379-3711
Email: renthankison@hankisonair.com

hankisonair.com

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