

### **INSTRUCTION MANUAL**

# ■ OIL-FREE PISTON TANK MOUNT AIR COMPRESSOR

### OFT-1/2/3/5/7.5/10/15/20D/30D

Thank you for purchasing our oil-free scroll air compressor.

- ●Before operation, be sure to read this instruction manual thoroughly for safe and efficient use for a long operating lifetime.
- After reading it, store in a convenient place for immediate and future reading.

Before use, be sure to fill in the blank spaces below for future repair and after service.

MODEL	
SERIAL No.	
Purchased from	
Date of purchase	
Date of use	

#### Important information

Be sure to read and understand this instruction manual.

The operator shall be fully conversant with the requirements stated within this instruction manual including important warnings, cautions and operation.

The marks and symbols have the following meanings.

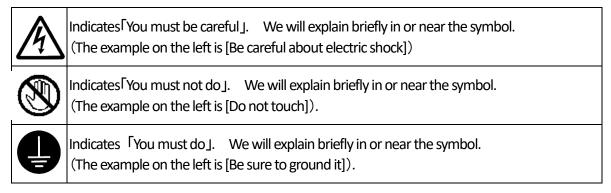


Keep this booklet in an appropriate place for immediate reference.

• Indications of warnings and cautions

<u>^</u>	WARMING	Indicates a potentially hazardous situation which, if not avoided, will result in serious injury or loss of life.
Ţ	$(\Delta HH)(M)$	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage.

Examples of warnings and cautions



\* We shall not be responsible for any injury or damage caused by disregard of warnings, cautions or instruction.

### Safety precautions

### **MARNING**



#### Install in a safe area.

Install in an area which is free of volatile, flammable gases or organic solvents.

They can cause explosion or fire.



#### **Never install outdoors.**

Do not install outdoors (This compressor is not water-proof)

If water splashes on electric equipment, it can cause electric shock or fire.



### Turn off main electric source.

Be sure to turn off main electric source before inspection or wiring unit.

If not, it can cause electric shock or serious bodily injury.



### Ask qualified electrician.

Ask qualified electrician to perform electric wiring job.

If not, it can cause electric shock or fire.



### Be sure to ground.

Be sure to do the grounding job.

If not, it can cause electric shock or fire.



### Never use to compress anything other than air.

If done, it can cause explosion, fire or damage.



# Never use with respiratory equipment which directly intakes compressed air.

If done, it can cause serious bodily injury.

## **MARNING**



# Never use with equipment which is directly concerned with human life.

If done, it can cause serious bodily injury.



#### **Never touch**

Never touch turning parts (fan, pulley and belts) while main electric source is turned on.

If done, it can cause serious injury including entanglement of fingers or hands.



### Release pressure

Be sure to release pressure from air receiver and make sure there is no pressure inside before conducting any maintenance or inspection.

If not, parts can scatter and can cause serious injury.



### **Conduct maintenance and inspection**

Conduct maintenance and inspection according to maintenance standards.

If not, it can cause fire and failure.

### **A**CAUTION

# Use at ambient temperature of 36 degree F to 104 degree F

Drain will freeze at less than 36 degree F and cause failure. More than 104 degree F will cause shorter lifetime or damage to unit.

Use in an area which is free of dirt or dust.

If done, it can cause failure.

Use at an area which is free of corrosive gas.

If done, it can cause failure.

Ask specialist to perform repairs.

If not, it can cause failure and shorter lifespan.

## Never touch.

Never touch each section of compressor during operation or soon after operation.

If done, it can cause burns.

### Never alter the compressor.

If done, it can cause damage or shorter lifespan.

## Use genuine parts.

Be sure to use our genuine parts when replacing parts during maintenance.

If not, it can cause failure or shorter lifespan.

### **Contents**

Important information-Safety precautions
■ Important information1 ■ Safety precautions2
Contents
■ Contents5
Before use
■ Inspect the product6
Installation
<ul> <li>Precautions about installation</li></ul>
Operation
■ Before start up11
<ul> <li>Before start up</li></ul>

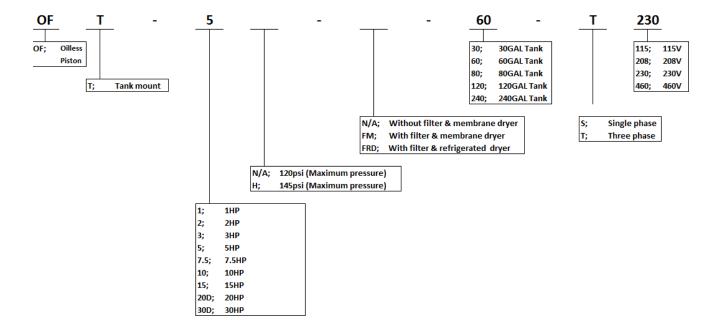
### Appendix

Outer dimensions      Circuit diagram	21 28
Warranty	l
Warranty and remedies	33

#### **Before use**

- Inspect the product
  - Check that model name of the product is as you ordered.

Model name description;



- Check that there is no deformity or damage which occurred during shipment. Any shipping damage must be immediately filed with the freight carrier.
- Check that the following accessories are included.
  - Compressor instruction manual
  - Piston pump instruction manual
  - Auto drainer instruction manual
  - Membrane dryer instruction manual (Only –FM units)
  - o Refrigerated dryer instruction manual (Only –FRD units)
  - 4 rubber mats

#### Precautions about installation



### **⚠ WARNING**

Do not use in an area which is exposed to rain, steam or high humidity.

High Humidity can cause electric shock or fire.

Do not install in an area with corrosive gas (ammonia, acid, salinity, ozone gas and sulfur dioxide). If done, it can cause shorter lifespan.

### **MARNING**

Install in an area which is free of explosive, flammable gases or organic solvents. If done, it can cause explosion and fire.

### • Ambient temperature

Use at ambient temperature of 36 degree F to 104 degree F.

Less than 36 degree F will cause failure or freezing.

### **A** CAUTION

Install this product on a flat floor.

If not, it may cause vibration and noise and shorten lifespan.

### **A** CAUTION

Install in an area which is free of dust.

Dust can cause increase temperature and wear, resulting in shorter lifespan and failure.

#### • Installation space

Secure the space around compressor for safe, inspection and maintenance.

Installation space						
(inch)						
Above 24						
Each Side 20						

#### • Ventilation

When using in totally closed room, install fan for ventilation.

Model	British Thermal Unit (BTU)			
OFT-1	2560			
OFT-2	5120			
OFT-3	7680			
OFT-5	12800			
OFT-5-FRD	13690			
OFT-7.5	19200			
OFT-7.5-FRD	20260			
OFT-10	25600			
OFT-10-FRD	26660			
OFT-15	38400			
OFT-15-FRD	40280			
OFT-20D	51200			
OFT-30D	76800			

#### Piping

- Do not use any steel pipe and a smaller size than the compressor outlet connection.
- Connect the auto drain as an accessary to the drain plumbing underneath the tank properly.
- When there is any riser piping, be sure to install drain collector or drain valve.

- Electrical wiring
  - Precautions about wiring



### Turn off main electric source.

Be sure to turn off main electric source before inspection or wiring job.

If not, it can cause electric shock or serious bodily injury.



### Ask qualified electrician.

Ask qualified electrician to perform electric wiring job.

If not, it can cause electric shock or fire.



### Be careful about wiring.

Do not use cable of less than designated size.

If done, overheat of cable can cause fire.



### Be sure to ground.

Be sure to do the grounding on the wiring job.

If not, it can cause electric shock or fire.

#### Wiring

Be sure to use the fork, pin or blade terminal to firmly connect the electric source to the designated place of the magnet switch or terminal in the control box. Please refer to the circuit diagram shown in Appendix.

#### o 115V/208V-230V, 1PH, 60Hz

Motor	Motor		Non-time	Time Delay	Inverse-time
Size	Power	Load	Delay Fuse	Fuse	circuit breaker
(HP)	(V/PH)	(FLA)	(A)	(A)	(A)
	115/1	16	40	30	40
1	208/1	8.8	25	20	25
	230/1	8	20	15	20
	115/1	24	60	45	60
2	208/1	13.2	35	25	35
	230/1	12	30	25	30

#### o 208V-230V/460V, 3PH, 60Hz

Motor	Power	Motor	Non-time	Time Delay	Inverse-time
Size	(V/PH)	Load	Delay Fuse	Fuse	circuit breaker
(HP)	(V/PN)	(FLA)	(A)	(A)	(A)
	208/3	4.6	15	15	15
1	230/3	4.2	15	15	15
	460/3	2.1	15	15	15
	208/3	7.5	20	15	20
2	230/3	6.8	20	15	20
	460/3	3.4	15	15	15
	208/3	10.6	30	20	30
3	230/3	9.6	25	20	25
	460/3	4.8	15	15	15
	208/3	16.7	45	30	45
5	230/3	15.2	40	30	40
	460/3	7.6	20	15	20
	208/3	24.2	70	45	70
7.5	230/3	22	60	40	60
	460/3	11	30	20	30
	208/3	30.8	80	60	80
10	230/3	28	70	50	70
	460/3	14	35	25	35
	208/3	46.2	125	90	125
15	230/3	42	110	80	110
	460/3	21	60	40	60
	208/3	61.6	175	110	175
20 (10HP x 2)	230/3	56	150	100	150
	460/3	28	70	50	70
	208/3	92.4	250	175	250
30 (15HP x 2)	230/3	84	225	150	225
	460/3	42	110	80	110

#### o Auto drainer

Connect the power cable with a plug to the outlet as below.

Supply voltage; 230 / 115 / 24 / ... VAC / 24 VDC ± 10%, 50 – 60 Hz

o Refrigerated Dryer (FRD only)

Connect the power cable with a plug to the outlet as below.

Supply voltage; 115 VAC (voltage fluctuation  $\pm 10\%$ ), 60 Hz

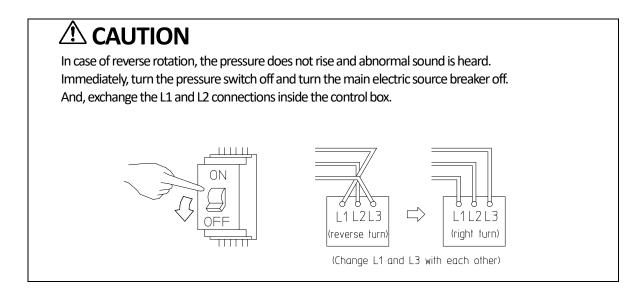
### **Operation**

#### Before start up

- Make sure all safety warnings, labels, and instructions have been read and understood before continuing.
- Make sure any shipping materials, brackets, etc. are removed.
- Check that the electric power source and ground have been firmly connected.
- Make sure all pressure connections are tight.
- Check to be certain all safety relief valves, etc., are correctly installed.
- Check that all fuses, circuit breakers, etc., are the proper size.
- Make sure the inlet filter is correctly installed.
- Check that the drain valve is closed.

#### Start-up and operation

- Switch the electric source breaker on.
- Check that the auto drainer is energized. (Option)
- Turn the pressure switch (or, two pressure switches; OFT-20D\*, DO NOT turn both switches on at same time.)
   on. And make sure the rotation is a correct direction in accordance with the arrow sign on the fan cover. If compressor turns in the reverse rotation, stop the unit and turn the eclectic source breaker off and exchange the L1 and L2 connections inside the control box.
- Open the discharge valve completely.
- Check that the compressor operates without excessive vibration, unusual noises or leaks.
- Close the discharge valve completely.



### Operation

• Check the discharge pressure. Also make sure the compressor stops at the setting pressure as below.

Mo	odel	Max. working pressure (psi)
OFT-1, 2, 3, 5, 7.5, 10 and 15		120
OFT 20D /20D	Lead pump	120
OFT-20D/30D	Second pump	110
OFT-1H,2H, 3H, 5H, 7.5H, 10H and 15H (Option)		145
OFT-20DH/30DH Lead pump		145
(Option)	Second pump	135

• Check the discharge pressure. Also make sure the compressor starts at the setting pressure as below.

Mo	odel	Max. working pressure (psi)
OFT-1,2, 3, 5, 7.5, 10 and	15	90
OFT-20D/30D	Lead pump	90
OF 1-20D/30D	Second pump	80
OFT-1H,2H, 3H, 5H, 7.5H, 10H and 15H (Option)		115
OFT-20DH/30DH Lead pump		115
(Option)	Second pump	105

#### **Maintenance**

Following maintenance is required at certain interval. These intervals are based on condition where ambient temperature is around 86 degree F. If your location is warmer or running condition is more severe, maintain within a shorter period. If warmer shorten the period approx. 30% from our recommendation at every 9 degree F. Standard maintenance period is not our warranty period.

#### Standard maintenance period

• A; OFT-7.5, 10, 15, 20D and 30D, B; OFT-1, 2, 3, 5 and 200 psi units

#### Maintenance is to be done according to operating hours or period whichever comes first.

			Maintenance period (every hours or periods)							
ltem		Details	<u>Daily</u>	Every 400 /1 months	<u>Every</u> <u>2,500</u> <u>/6 months</u>	<u>Every</u> <u>5,000</u> <u>/1 year</u>	Every 7,500 /1.5 years	<u>Every</u> <u>10,000</u> <u>/2 years</u>	<u>Every</u> <u>15,000</u> <u>/3 years</u>	Remarks
Drain (Option)		Air receiver	0					o☆		Change as necessary
Noise, vibration		Check	0							
Air intake filter		Clean		0	•					Whenever it is dirty
Safety valve		Check function		0						
V belt		Tension/replace			0			∙☆		No slack or loose
Pressure gauge		Check			0					
Magnetic switch		Check/replace				o☆		∙☆		
Motor, insulation		Check resistance				o☆				Change as necessary
Motor		Check/replace							∙☆	
Pulley		Check						o☆		Change as necessary
Pressure switch		Check function						o☆		Change as necessary
After cooler (20D	)	Clean						o☆		Change as necessary
Valve set	Α	Check/replace					∙☆			Use genuine Parts
Cylinder cover	В	Check/replace				∙☆				Use genuine Parts
Piston ring Piston set Cylinder	Α	Check/replace					∙☆			Use genuine Parts
	В	Check/replace				∙☆				Use genuine Parts
Connecting rod Piston pin Bearing	Α	Check/replace					∙☆			Use genuine Parts
	В	Check/replace				∙☆				Use genuine Parts

○ Inspect • Replace ☆ Consult with distributor who sold it to you

#### Dryer maintenance period

<sup>\*</sup> Air intake filter is a wear part, and it is not free of charge even during warranty period. We suggest you keep it on hand.

#### • A; OFT-5-FRD, OFT-7.5-FRD, 10-FRD, and 15-FRD

#### Maintenance is to be done according to operating hours or period whichever comes first.

		Maintenance period (every hours or periods)								Remarks
ltem	Details	<u>Daily</u>	Every 400 /1 month	Every 3 months	Every 2,500 /6 months	<u>Every</u> <u>5,000</u> <u>/1 year</u>	Every 7,500 /1.5 years	<u>Every</u> <u>10,000</u> <u>/2 years</u>	Every 20,000 /4 years	
Display of dryer	Check abnormalities	0								
Refrigerating Compressor	Must not have abnormal sound, smoke or smell	0								
	Must not leak oil			$\oplus$						
Ventilation grille	Clean out dust and foreign particles		0							
	Clean dirt and dust attached to the fin			$\oplus$						Each time dirt accumulates greatly
Condenser	Must not have oil leakage			Ф						
	Must not have corrosion			$\oplus$						
Fan Motor	Check/replace								●☆	
Pipe	Check resistance								0☆	
Auto drain strainer	Clean/replace		0							Use neutral detergent for cleaning. Replace if operating failure continues after deaning

<sup>○</sup> Inspect • Replace ☆ Consult with distributor who sold it to you

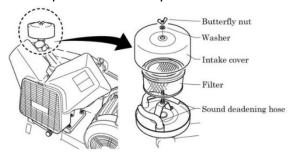
The mark  $\oplus$  is to implement certainly as items of legal inspection decided to be "the law related to proper control and rationalization of fluorocarbons use". Inspect with eyes. Record and keep the results of maintenance until disposal and transfer of the product. Request repairing promptly when oil leakage is discovered from refrigerating compressor. Repairing request inform authorized distributor by ANEST IWATA Air Engineering, Inc.

<sup>\*</sup> Air intake filter is a wear part, and it is not free of charge even during warranty period. We suggest you keep it on hand.

#### **Maintenance**

- Replace filter element of mainline filter, and membrane dryer. (-FM\*)
   For mainline filter, the filter elements need to be replaced once every two year.
   For membrane drier, the filter elements need to be replaced once a year.
- Replace filter element of mainline filter, and membrane dryer. (-FRD)
   For mainline filter, the filter elements need to be replaced once every two year.
- How to carry out maintenance
  - Intake filter

Blow dust off of it with air gun and replace if it is too dirty.



Safety valve

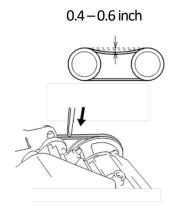
Lift up stem of safety valve at around max pressure and check if air blows out.

• Belt tension

Check if V belt makes slipping sound at the startup due to decrease of V belt tension.

If so, you must readjust belt tension or replace belt.

Push the center point of span softly and adjust the tension with sliding the motor so that belt is deflected about 0.4 to 0.6 Inch. Please refer to the drawing as below.



### **Troubleshooting guide**

If you have any problems, please refer to the below chart.

As \* marked items are difficult for you to remedy, please contact the shop you have purchased it from.

#### Compressor

Problem	Cause	Corrective action		
	Electric source is not ON.	Turn on electric source		
Compressor unit does not start	Electric source is not connected correctly.	Connect it correctly		
	Pressure switch is in OPEN position	Reduce pressure in air receiver		
Power is at supply	Over load relay has tripped	See last entry of Troubleshooting guide		
connection and	Wrong or low voltage	Inspect incoming power supply and unit power rating.		
compressor does not	Starter has failed	Inspect, repair or replace contactor assembly *		
start	Pressure switch has failed	Inspect, repair or replace pressure switch assembly *		
Start	Motor has failed	Inspect, repair or replace motor *		
	Drive belts came off or too loose	Inspect, tighten or replace drive belts *		
Compressor is running	Clogged intake filter element	Clean or replace intake filter element		
but will not make	Discharge air is leaking	Inspect and repair		
pressure	Pump has failed	Inspect, repair or replace pump *		
	Pump running in the wrong direction	Correct power connections		
Excessive noise or	Drive belt has flipped or slipped	Inspect, repair or replace drive belt *		
vibration	Motor has failed	Inspect, repair or replace motor*		
VIDIALIOIT	Pump has failed	Inspect, repair or replace pump		
	Ambient temperature is high	Be sure not to exceed above 104 degree F		
Compressor running hot	Pump running at high pressure	Check tank pressure and pump outlet are not obstructed		
Compressor running not	After cooler fins clogged	Clean after cooler		
	Clogged intake filter element	Clean or replace intake filter element		
Compressor turns	Receiver tank has high level of water	Drain condensation		
on/off rapidly	Check valve has failed	Inspect, repair or replace check valve *		
Onyon rapidly	Pressure switch has failed	Inspect, repair or replace pressure switch *		
Safety valve blows off	Motor starter contacts welded shut	Inspect, repair or replace motor starter *		
Salety valve blows off	Pressure switch has failed	Inspect, repair or replace pressure switch *		
Motor overload has	Pump has failed	Inspect, repair or replace pump *		
	Motor has failed	Inspect, repair or replace motor*		
tripped	Improper wiring	Inspect and rewire *		
lippeu	Wrong overload setting	Check setting of overload relay *		
	Low voltage	Check incoming power supply		

#### Auto drainer (option)

In case of any problem is occurred in the auto drainer, please read the enclosed manual for the auto drainer BEKOMAT31.

#### Refrigerated Air Dryer (option)

In case of any problem is occurred in the refrigerated dryer, please read the enclosed manual for the Refrigerated Air Dryer.

#### Compressor specifications

#### • 1HP/2HP

Item		OFT-1(S)-30	OFT-1(S)-FM-30	OFT-2(S)-30	OFT-2(S)-FM-30
Operating pressure	psi	90 - 120			
Air delivery (*1)	cfm	3.2	2.7	5.7	5.2
Tank size	GAL	30			
Noise level (*2)	dB(A)	59 59			i9
Air outlet		NPT 1/2"	NPT 3/8"	NPT 1/2"	NPT 3/8"
Operating voltage		(1Phase, 115/208-230V, 60Hz) 3Phase, 208-230/460V, 60Hz			
Dimensions (L×W×H) (*3)	ln.	29 x 19 x 57 35 x 19 x 57		29 x 19 x 57	35 x 19 x 57
Approx. mass	Lbs.	205	210	225	230

#### 3HP

Item		OFT-3-60	OFT-3-FM-60	
Operating pressure psi		90 - 120		
Air delivery (*1)	cfm	9.5	8.7	
Tank size	GAL	60	60	
Noise level (*2) dB(A)		72		
Air outlet		NPT 1/2"	NPT 3/8"	
Operating voltage		3Phase, 208-2	30/460V, 60Hz	
Dimensions (L×W×H) (*3)	ln.	48 x 33 x 52	48 x 33 x 52	
Approx. mass	Lbs.	370	375	

<sup>\*1.</sup> Air delivery means average discharge air volume at the Maximum operating pressure converted into atmospheric pressure. It is not a warranted figure.

Nominal filtration rating: 0.3  $\mu$  m [Filtration efficiency: 99.9%]

Oil mist density at outlet: Max. 1.0 mg/m<sup>3</sup> (ANR) [≒0.8ppm]

Filter element: AM-EL250

This is designed for approximately 25 / 57 / 61 degree F as a dew point and approximately 2.7 / 5.2 / 8.7 cfm as a final discharge flow. If more information is needed, please refer to the instruction manual that is enclosed.

<sup>\*2.</sup> Noise level is measured in an anechoic room.

<sup>\*3.</sup> Dimensions are outer dimensions excluding extruding parts.

<sup>\*4.</sup> Mainline filter (AM250C-N03D)

<sup>\*5.</sup> Membrane dryer (1HP/2HP; DM10-34CC-N, 3HP; DM10-41CB-N)

#### 5HP

Item		OFT-5-60	OFT-5-FM-60	OFT-5-80	OFT-5-FM-80
Operating pressure	psi	90 - 120			
Air delivery (*1)	cfm	15	13.6	15	13.6
Tank size	GAL	60		80	
Noise level (*2)	dB(A)	73			
Air outlet		NPT 1/2"	NPT 3/8"	NPT 1/2"	NPT 3/8"
Operating voltage			3Phase, 208-2	30/460V, 60Hz	
Dimensions (L×W×H) (*3)	ln.	48 x 33 x 54			64 x 33 x 54
Approx. mass	Lbs.	460	470	520	530

#### 7.5HP

Item		OFT-7.5-80	OFT-7.5-FM-80	OFT-7.5-120	OFT-7.5-FM-120
Operating pressure	psi	90 - 120			
Air delivery (*1)	cfm	24.0	21.2	24.0	21.2
Tank size	GAL	80 120			20
Noise level (*2)	dB(A)	70			
Air outlet		NPT 3/4"			
Operating voltage		3Phase, 208-2	30/460V, 60Hz		
Dimensions (L×W×H) (*3)	ln.	64x31x57 64x33x57 68x31x60 75x31x60			75 x 31 x 60
Approx. mass	Lbs.	650	660	775	785

<sup>\*1.</sup> Air delivery means average discharge air volume at the Maximum operating pressure converted into atmospheric pressure. It is not a warranted figure.

Nominal filtration rating: 0.3  $\mu$  m [Filtration efficiency: 99.9%]

Oil mist density at outlet: Max. 1.0 mg/m<sup>3</sup> (ANR) [=0.8ppm]

Filter element: 5HP; AM-EL250, 7.5HP; AM-EL450

This is designed for approximately 44 / 55 degree F as a dew point and approximately 13.6 / 21.2 cfm as a final discharge flow. If more information is needed, please refer to the instruction manual that is enclosed.

<sup>\*2.</sup> Noise level is measured in an anechoic room.

<sup>\*3.</sup> Dimensions are outer dimensions excluding extruding parts.

<sup>\*4.</sup> Mainline filter (5HP; AM250C-N03D, 7.5HP; AM450C-N06D)

<sup>\*5.</sup> Membrane dryer (5HP; DM10-47CA-N, 7.5HP; DM20-53CA-N)

#### 10HP

Item		OFT-10-80 OFT-10120 OFT-10-FN				
Operating pressure	psi	90 - 120				
Air delivery (*1)	cfm	30.0 30.0 27.2				
Tank size	GAL	80 120				
Noise level (*2)	dB(A)	75				
Air outlet		NPT 3/4"				
Operating voltage		3Phase, 208-230/460V, 60Hz				
Dimensions (L×W×H) (*3)	ln.	64 x 31 x 57 68 x 31 x 60 75 x 31 x 60				
Approx. mass	Lbs.	685 800 815				

#### • 15HP / 20HP / 30HP

Item		OFT-15-120	OFT-20D-120	OFT-30D-240	
Operating proceure	nci	90 - 120	90 – 120(Lead pump)		
Operating pressure	psi	90-120	80-110(Second pump)		
Air delivery (*1)	cfm	41.0 60.0		80.0	
Tank size GAL		12	20	240	
Noise level (*2)	dB(A)	74 78		80	
Air outlet		NPT 3/4" NPT 1"		Γ1"	
Operating voltage		3Phase, 208-230/460V, 60		Hz	
Dimensions (L×W×H) (*3)	ln.	68 x 31 x 60 70 x 52 x 60		85 x 52 x 65	
Approx. mass	Lbs.	925	1260	1965	

<sup>\*1.</sup> Air delivery means average discharge air volume at the Maximum operating pressure converted into atmospheric pressure. It is not a warranted figure.

Nominal filtration rating: 0.3  $\mu$  m [Filtration efficiency: 99.9%]

Oil mist density at outlet: Max. 1.0 mg/m<sup>3</sup> (ANR) [≒0.8ppm]

Filter element: AM-EL450

This is designed for approximately 55 degree F as a dew point and approximately 27.2 cfm as a final discharge flow. If more information is needed, please refer to the instruction manual that is enclosed.

<sup>\*2.</sup> Noise level is measured in an anechoic room.

<sup>\*3.</sup> Dimensions are outer dimensions excluding extruding parts.

<sup>\*4.</sup> Mainline filter (10HP; AM450C-N04D)

<sup>\*5.</sup> Membrane dryer (10HP; DM20-60CB-N)

• 5HP / 7.5HP / 10HP / 15HP with Refrigerated Dryer

Item		OFT-5-FRD	OFT-7.5-FRD	OFT-10-FRD	OFT-15-FRD	
Operating pressure	psi	90 - 120				
Air delivery (*1)	cfm	15.0	24.0	30.0	41.0	
Tank size GAL		60	120			
Noise level (*2)	dB(A)	73	70	75	74	
Air outlet			NPT 1/2" NPT 3/4			
Operating voltage		3Phase, 208-230/460V, 60Hz				
Dimensions (L×W×H) (*3)	ln.	68 x 33 x 54 71 x 47 x 59				
Approx. mass	Lbs.	510	849	879	998	

- 1. Air delivery means average discharge air volume at the Maximum operating pressure converted into atmospheric pressure. It is not a warranted figure.
- \*2. Noise level is measured in an anechoic room.
- \*3. Dimensions are outer dimensions excluding extruding parts.
- \*4. Mainline filter (5-10HP; AM350C-N04D/ 15HP; AM450-N04D)

Nominal filtration rating: 0.3  $\mu$  m [Filtration efficiency: 99.9%]

Oil mist density at outlet: Max. 1.0 mg/m<sup>3</sup> (ANR) [=0.8ppm]

\*5. Final filter (5-10HP; AMD350C-N04D / 15HP; AMD450-N04D)

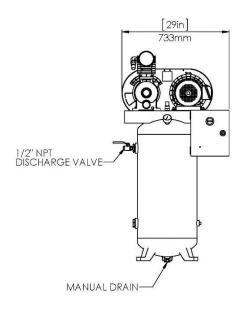
Nominal filtration rating: 0.01  $\mu$  m [Filtration efficiency: 99.9%]

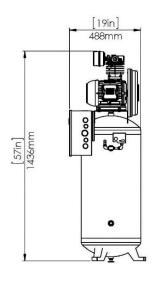
Oil mist density at outlet: Max. 0.1 mg/m<sup>3</sup> (ANR) [≒0.8ppm]

#### \*6. Refrigerated dryer

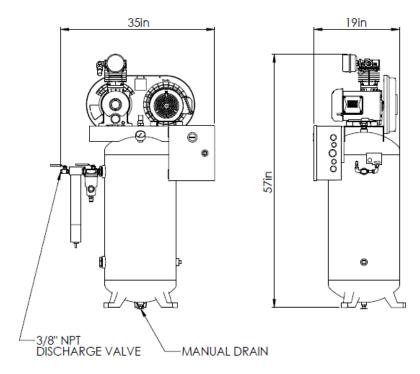
This is designed for approximately 55 degree F as a dew point at Maximum operating pressure. It is not a warranted figure. If more information is needed, please refer to the instruction manual that is enclosed.

- Outer dimensions
  - OFT-1-30 / OFT-2-30

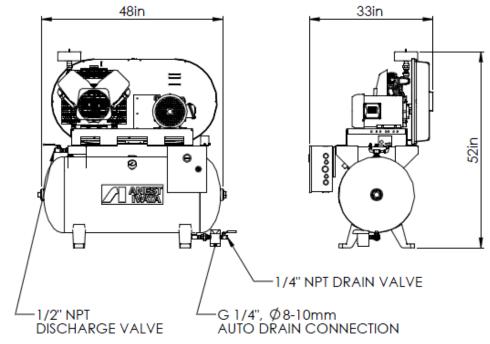




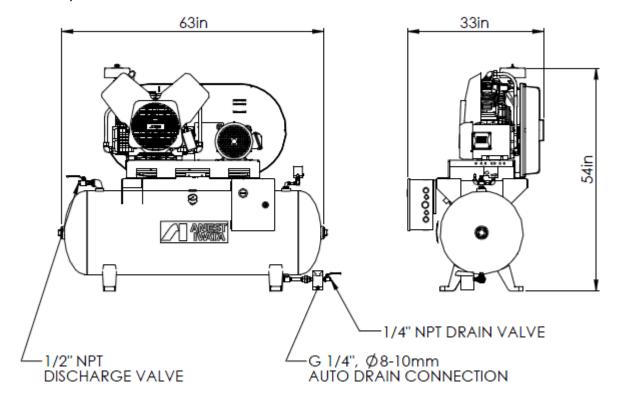
• OFT-1-FM-30 / OFT-2-FM-30



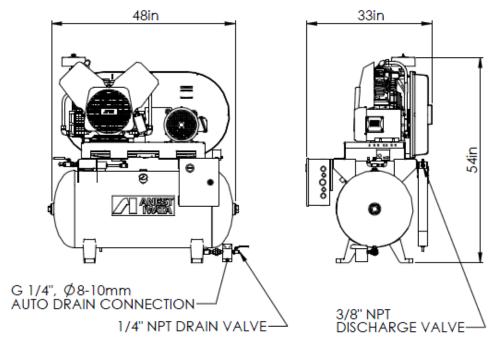
• OFT-3-60 / OFT-5-60



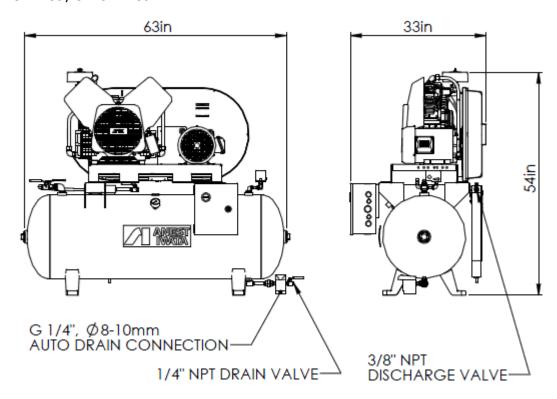
• OFT-3-80 / OFB-5-80



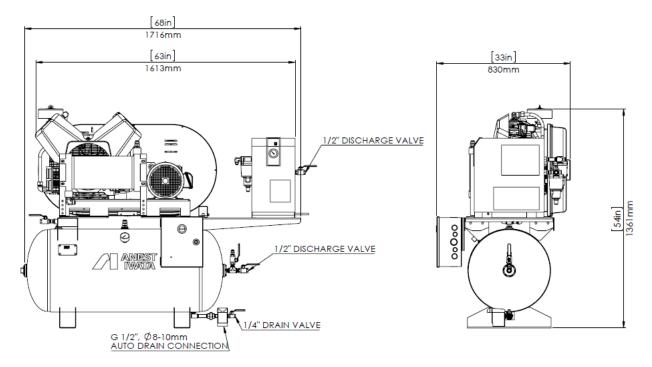
• OFT-3-FM-60 / OFT-5-FM-60



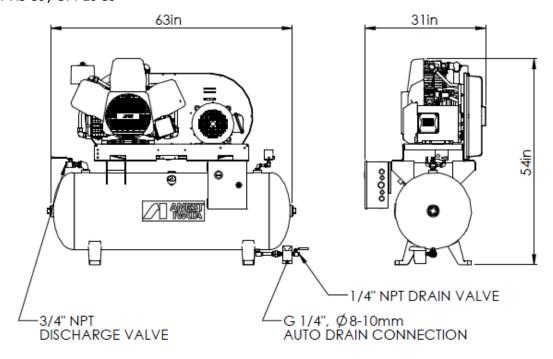
• OFT-3-FM-80 / OFT-5-FM-80



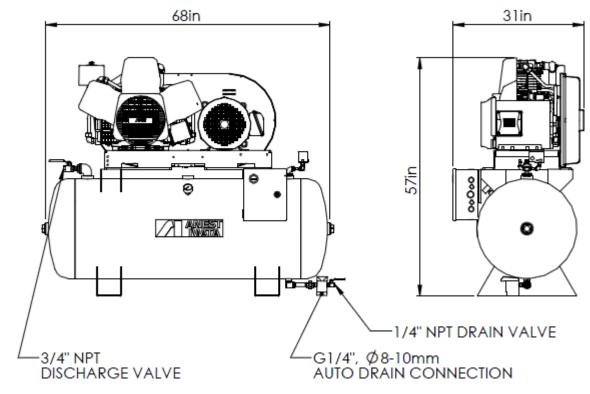
#### OFT-5-FRD-60



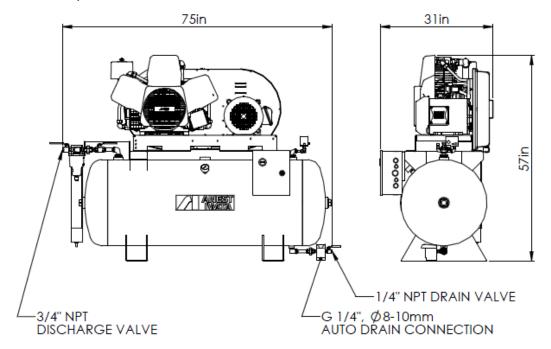
#### • OFT-7.5-80 / OFT-10-80



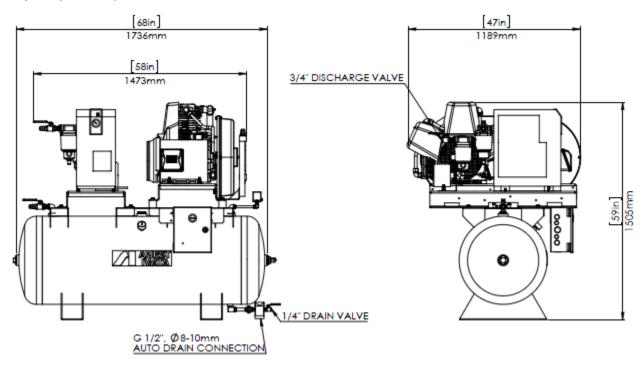
• OFT-7.5-120 / OFT-10-120 / OFT-15-120



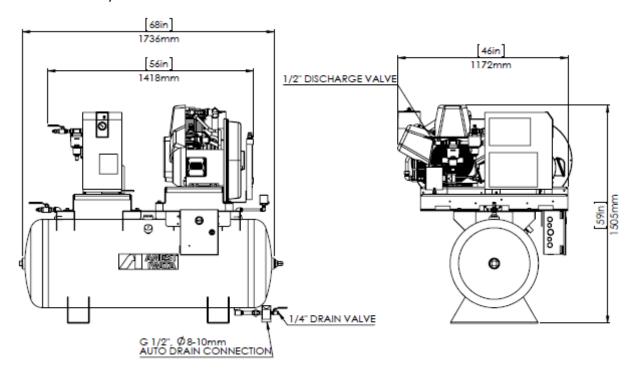
• OFT-7.5-FM-120 / OFT-10-FM-120



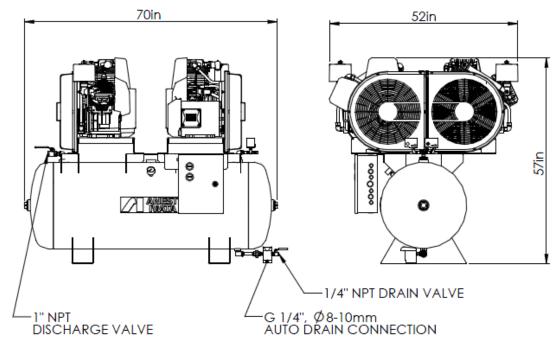
• OFT-7.5-FRD-120



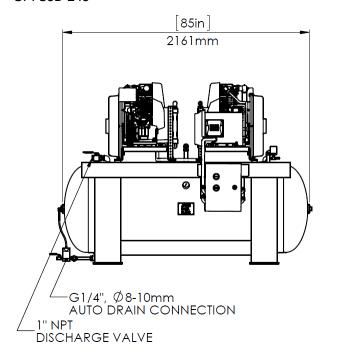
• OFT-10-FRD-120 / OFT-15-FRD-120

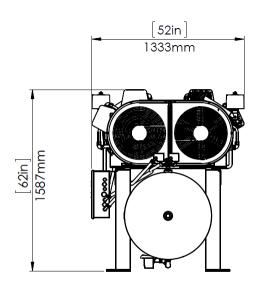


#### • OFT-20D-120

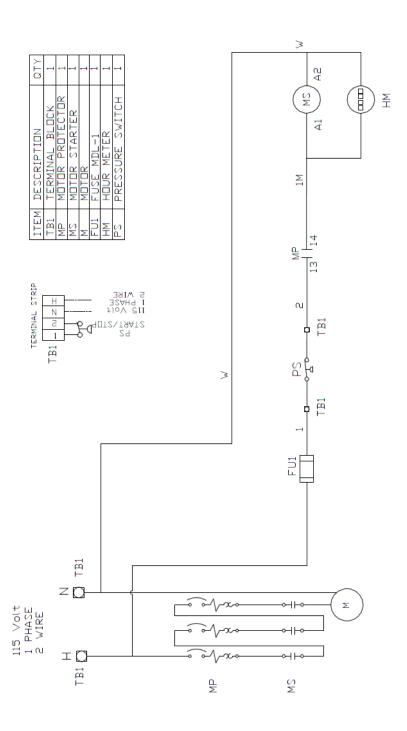


#### • OFT-30D-240

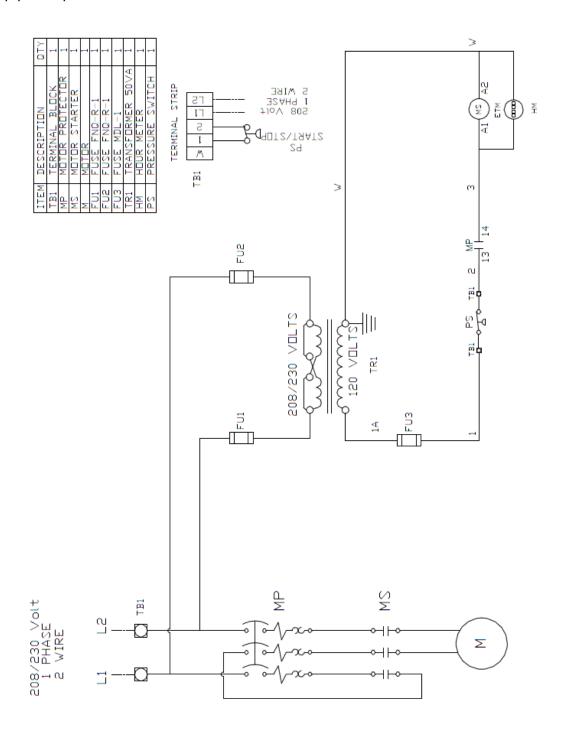




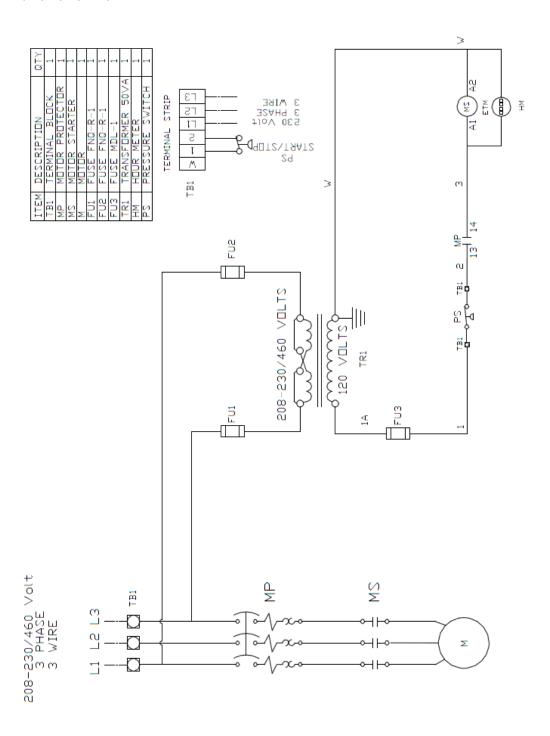
- Circuit diagram
  - OFT-1/OFT-2-S115



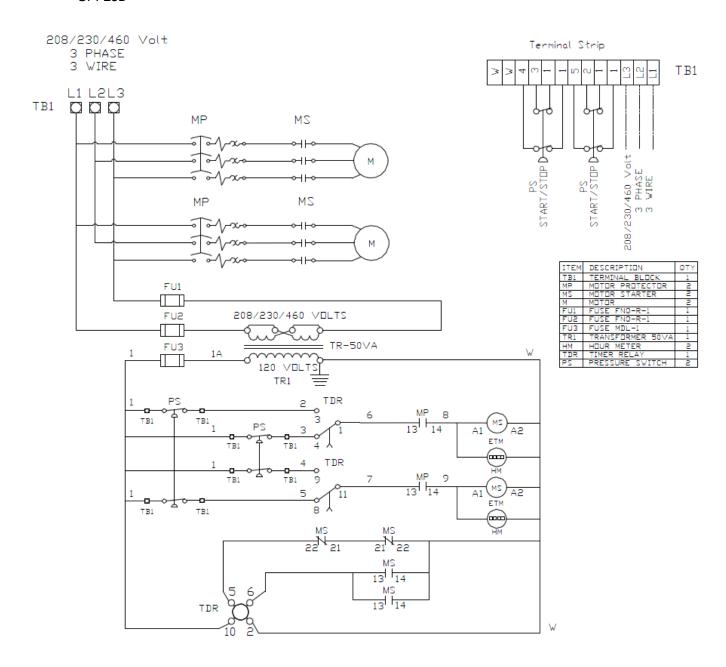
- Circuit diagram
  - OFT-2/3/5-S208/230



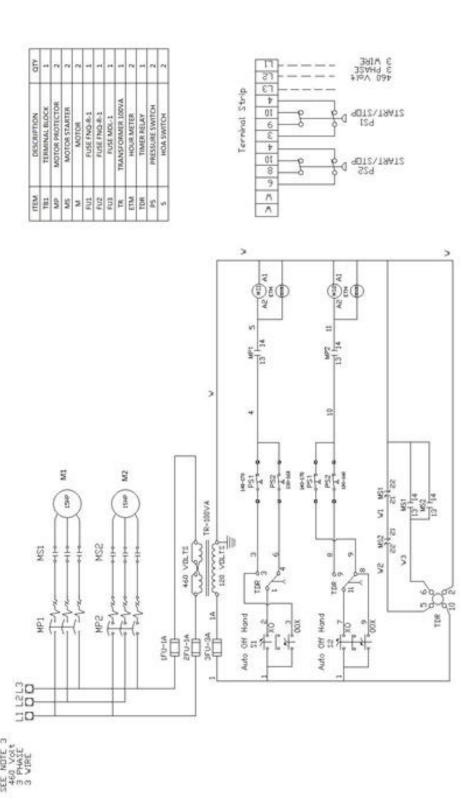
• OFT-1/2/3/5/7.5/10 and 15



• OFT-20D\*



#### • OFT-30D\*



#### Warranty

- Compressor Warranty and Remedies
  - (a) General. Anest Iwata Air Engineering warrants each Compressor System, Compressor Air-End, or Anest Iwata branded accessory (collectively "products", individually each a "product") to be free from defects in material and workmanship ("Defects") at the date of shipment. EXCEPT AS SET FORTH BELOW, NO OTHER WARRANTY, WHEATHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABLILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL EXIST IN CONNECTION WITH THE SALE OR USE OF SUCH PRODUCTS. TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. All daims under this warranty must be made in writing and delivered to Anest Iwata Air Engineering, or such claim shall be barred. Upon timely receipt of a claim, Anest Iwata Air Engineering shall inspect the product claimed to have a defect, and Anest Iwata Air Engineering; or, at its option, replace, free of charge, any product which it determines to have had a defect at the time of shipment from Anest Iwata Air Engineering; provided, however, that if circumstances are such as to preclude the remedying of defect by repair or replacement, Anest Iwata Air Engineering shall, upon return of the product, refund to buyer any part of the purchase price of such products paid to Anest Iwata Air Engineering. Freight for the returning products to Anest Iwata Air Engineering for inspection shall be paid by buyer. The warranties and remedies herein are the sole and exclusive remedy for any breach of warranty or for any other claim based on any defect, or non-performance of the products, whether based upon contract, warranty or negligence.
  - (b) Initial period of warranty Parts and Labor. Anest Iwata Air Engineering warrants and represents all products shall be free from defects for the first twelve (12) months from the date of shipment by Anest Iwata Air Engineering, or five thousand (5,000) hours of use, whichever occurs first. During such warranty period, Anest Iwata Air Engineering shall be fully liable for all defects in the products (the "product defects"), i.e., all costs of repair or replacement, which may include "in and out" charges, so long as the products are located in the continental United States, and the products are reasonably located and accessible by service personnel for removal. "In and out" charges include the costs of removing a product from buyer's equipment for repair or replacement.
  - (c) Additional period of Warranty Parts Only (No Labor). In addition to the above, Anest Iwata Air Engineering warrants each Anest Iwata branded compressor air-end, shall be free of defects for a period of eighteen months from the date of shipment of product, or 10,000 hours of use, whichever occurs first. Supplier's repair or replacement of any product shall not extend the period of any warranty of any product. This warranty applies to the exchange of part(s) found to be defective by an authorized Anest Iwata service center only.
  - (d) <u>Coverage</u>. The above mentioned warranty applies to Anest Iwata Air Engineering manufactured units or systems only.
  - (e) Exceptions. Notwithstanding anything to the contrary herein, Anest Iwata Air Engineering shall have no warranty obligations with respect to products:
    - (i) That have not been installed in accordance with Anest Iwata Air Engineering's Written specifications and instructions;
    - (ii) That have not been maintained in accordance with Anest Iwata Air Engineering's written instructions;
    - (iii) that have been materially modified without the prior written approval of Anest Iwata Air Engineering; or
    - (iv) That experience failures resulting from operation, either intentional or otherwise, in excess of rated capacities or in an otherwise improper manner.
  - (f) The warranty provided herein shall not apply to: (i) any defects arising from corrosion, abrasion, use of insoluble lubricants, or negligent attendance to or faulty operation of the products; (ii) ordinary wear and tear of the products; or (iii) defects arising from abnormal conditions of temperature, dirt or corrosive matter; (iv) any OEM component which is shipped by Anest Iwata Air Engineering with the original manufacturer's warranty, which shall be the sole applicable warranty for such component.

<u>Limitation of liability.</u> To the extent allowable under applicable law, not with standing anything to the contrary herein, under no circumstances shall anest iwata air engineering be liable for any incidental, consequental, punitive, speculative or indirect losses or damages what so ever arising out of or in any way related to any of the products or goods sold or agreed to be sold by anest iwata air engineering to buyer. To the extent allowable under applicable law, anest iwata air engineering's liability in all events is limited to and shall not exceed the purchase price paid.

<u>Warranty Disclaimer.</u> Anest Iwata Air Engineering has made a diligent effort to illustrate and describe the products in this literature accurately; however, such illustrations and descriptions are for the sole purpose of identification, and do not express or imply a warranty that the products are merchantable, or fit for a particular purpose, or that the products will necessarily conform to the illustrations or descriptions.

<u>Product Suitability.</u> Many jurisdictions have codes and regulations governing sales, construction, installation, and/or use of products for certain purposes, which may vary from those in neighboring areas. While Anest Iwata Air Engineering attempts to assure that its products comply with such codes, it cannot guarantee compliance, and cannot be responsible for how the product is installed or used. Before purchase and use of a product, please review the product applications, and national and local codes and regulations, and be sure that the product, installation, and use will comply with them.

Claims. Claims pertaining to the products, with the exception of warranty claims, must be filed with Anest Iwata Air Engineering within 6 months of the invoice date, or they will not be honored. Prices, discounts, and terms are subject to change without notice or as stipulated in specific product quotations. All agreements are contingent upon strikes, accidents, or other causes beyond our control. All shipments are carefully inspected and counted before leaving the factory. Please inspect carefully any receipt of products noting any discrepancy or damage on the carrier's freight bill at the time of delivery. Discrepancies or damage which obviously occurred in transit are the carrier's responsibility and related claims should be made promptly directly to the carrier. Returned products will not be accepted without prior written authorization by Anest Iwata Air Engineering and deductions from invoices for shortage or damage claims will not be allowed. UNLESS OTHERWISE AGREED TO IN WRITING, THESE TERMS AND CONDITIONS WILL CONTROL IN ANY TRANSACTION WITH ANEST IWATA AIR ENGINEERING Any different or conflicting terms as may appear on any order form now or later submitted by the buyer. All orders are subject to acceptance by Anest Iwata Air Engineering.

ANEST IWATA Air Engineering, Inc. 9525 Glades Drive West Chester, Ohio 45069 USA 800-440-0282



### ANEST IWATA Air Engineering, Inc.

www.anestiwata.com

iinquiry@anestiwata.com

Toll Free (800)440-0282

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