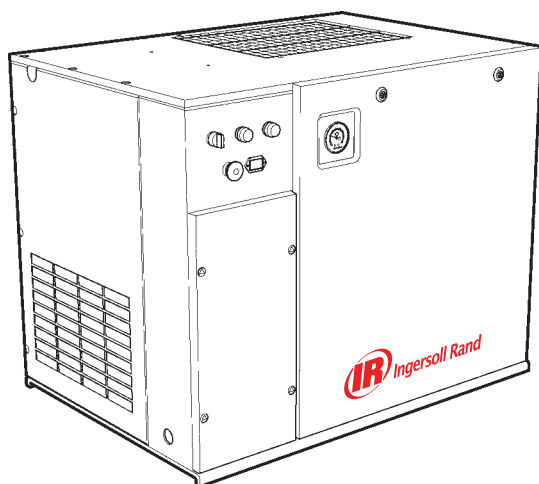




## Contact-Cooled Rotary Screw Air Compressor

UP5 4, UP5 5, UP5 7, UP5 11c  
UP6 5, UP6 7, UP6 10, UP6 15c



---

## Parts Information



**Save These Instructions**



Only allow **Ingersoll Rand** trained Technicians to perform maintenance on this product. For additional information contact **Ingersoll Rand** factory or nearest Distributor.

The use of other than genuine **Ingersoll Rand** replacement parts may result in safety hazards, decreased performance and increased maintenance and may invalidate all warranties.

Refer all communications to the nearest **Ingersoll Rand** Office or Distributor.

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## PARTS ORDERING INFORMATION

These products are designed and constructed to provide long, trouble-free service. In time it may be necessary to order and install new parts to replace those that have been subjected to wear.

For your convenience and future reference it is recommended that the following information be recorded.

Model Number \_\_\_\_\_  
 Serial Number \_\_\_\_\_  
 Date Purchased \_\_\_\_\_

When ordering replacement parts, please specify the following:

1. Complete model number and serial number as it appears on the data (name) plate.
2. Part number(s) and part description as shown in this manual.
3. Quantity required.

### NOTICE

- Continuing improvement and advancement of design may cause changes to this equipment which are not included in this manual. Manuals are periodically revised to incorporate changes. Always check the manual edition number on the front cover for the latest issue.
- Sections of this manual may not apply to your product.
- Using other than genuine **Ingersoll Rand** replacement parts may invalidate the warranty.

### ■ Return Goods Policy

**Ingersoll Rand** will not accept any returned goods for warranty or service work unless prior arrangements have been made and written authorization has been provided from the location where the goods were purchased.

Products which have been modified without **Ingersoll Rand** approval, mishandled or misused will not be repaired or replaced under warranty. A printed copy of the warranty which applies to this product is provided inside the back cover of this manual.

### ■ Disposal

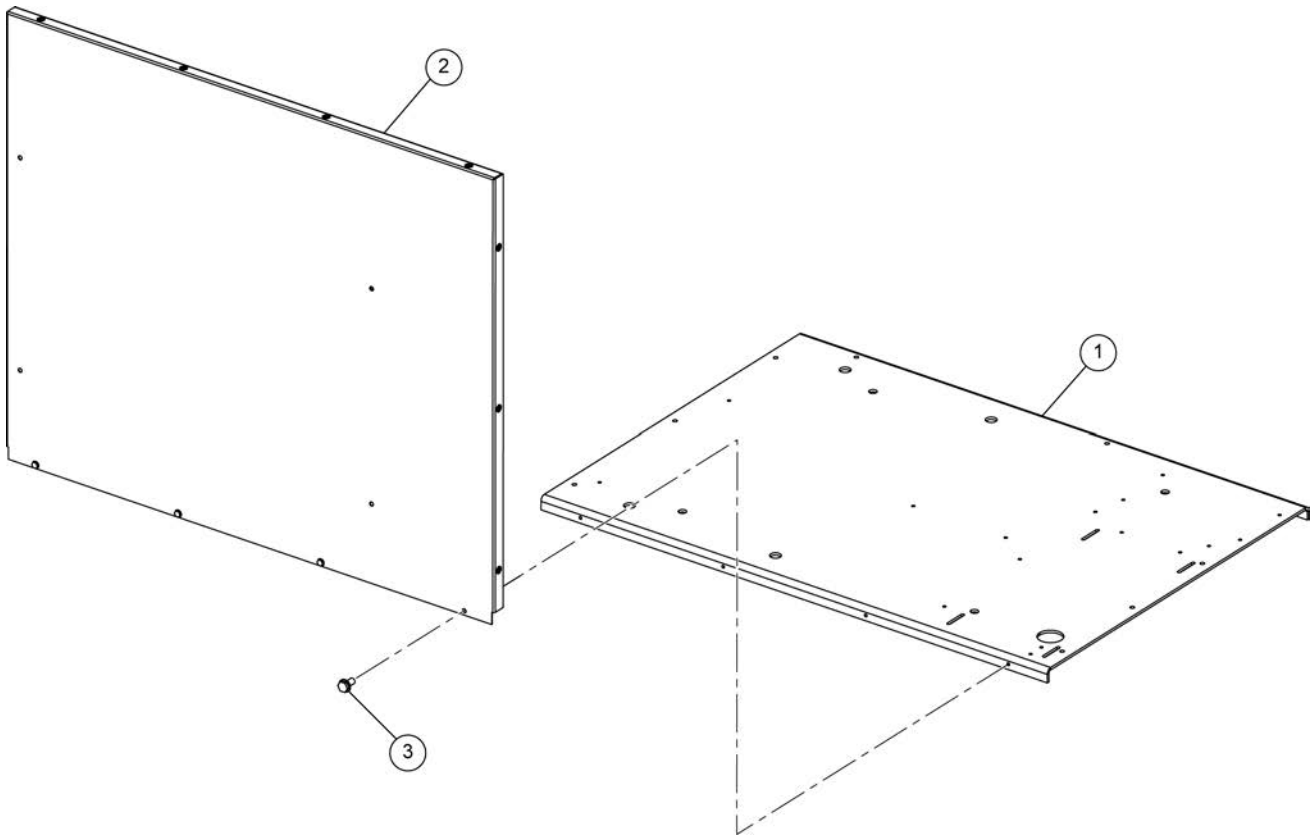


When the life of the product has expired, it is recommended that it be disassembled, degreased and parts separated as to materials so that they may be recycled.

Refer all communications to the nearest **Ingersoll Rand** Office or Distributor.

## ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Back Panel to Base



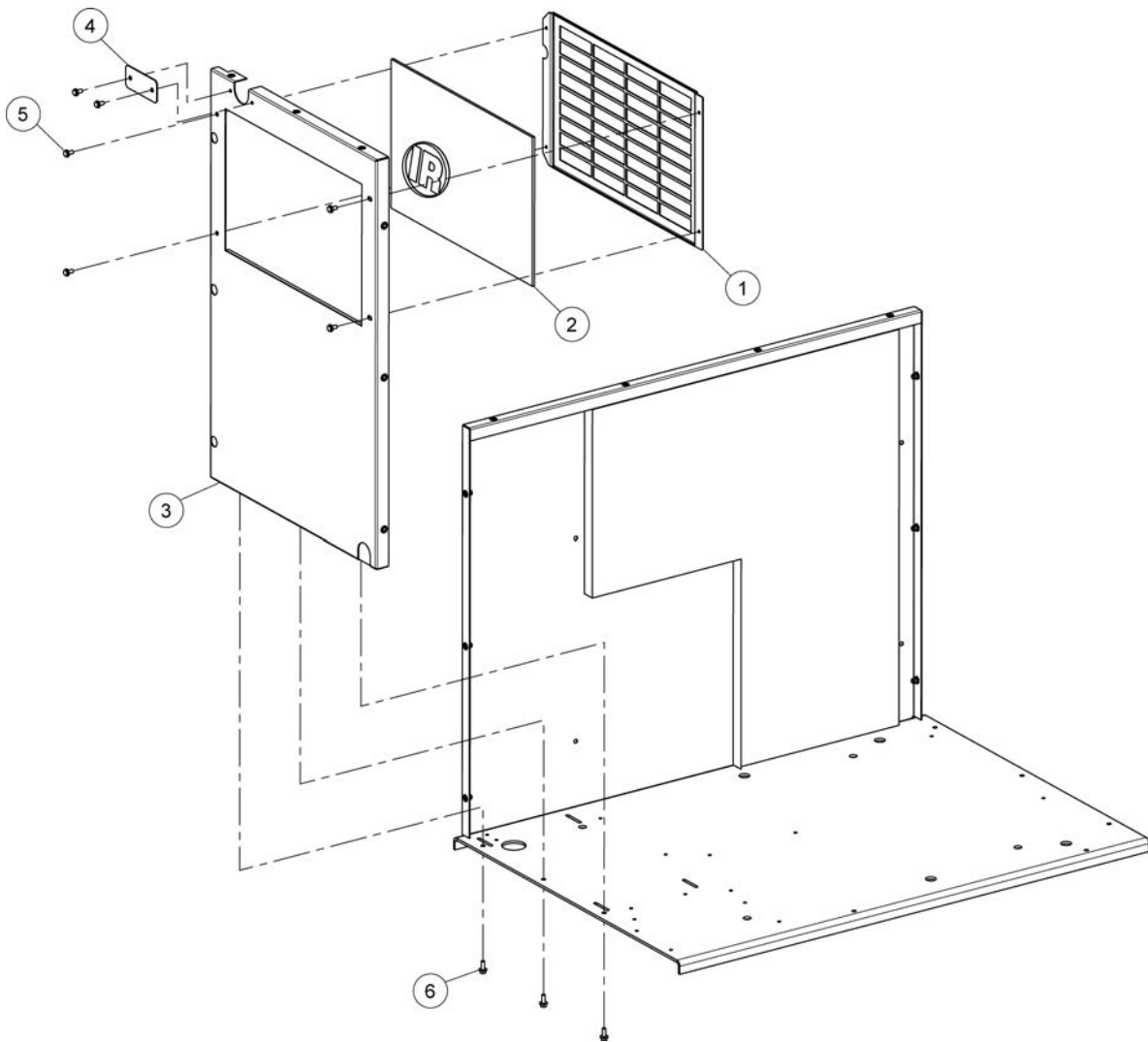
(Dwg. 22426928J2)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22313001	BASE, UP-SERIES 5-15 hp (TANK MOUNT)	1
	22311872	BASE, UP-SERIES 5-15 hp (FLOOR MOUNT)	1
	47618496001	BASE, UP-SERIES 5-15 hp (TANK MOUNT)(N.A.)	1
2	22460729	ASSEMBLY, BACK PANEL (SHEET METAL/FOAM)	1
3	92368687	TAPTITE SCREW M6-1 x 12 LONG	4

## ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Left End Panel to Base (Non-Dryer)



(Dwg. 22426928J3)

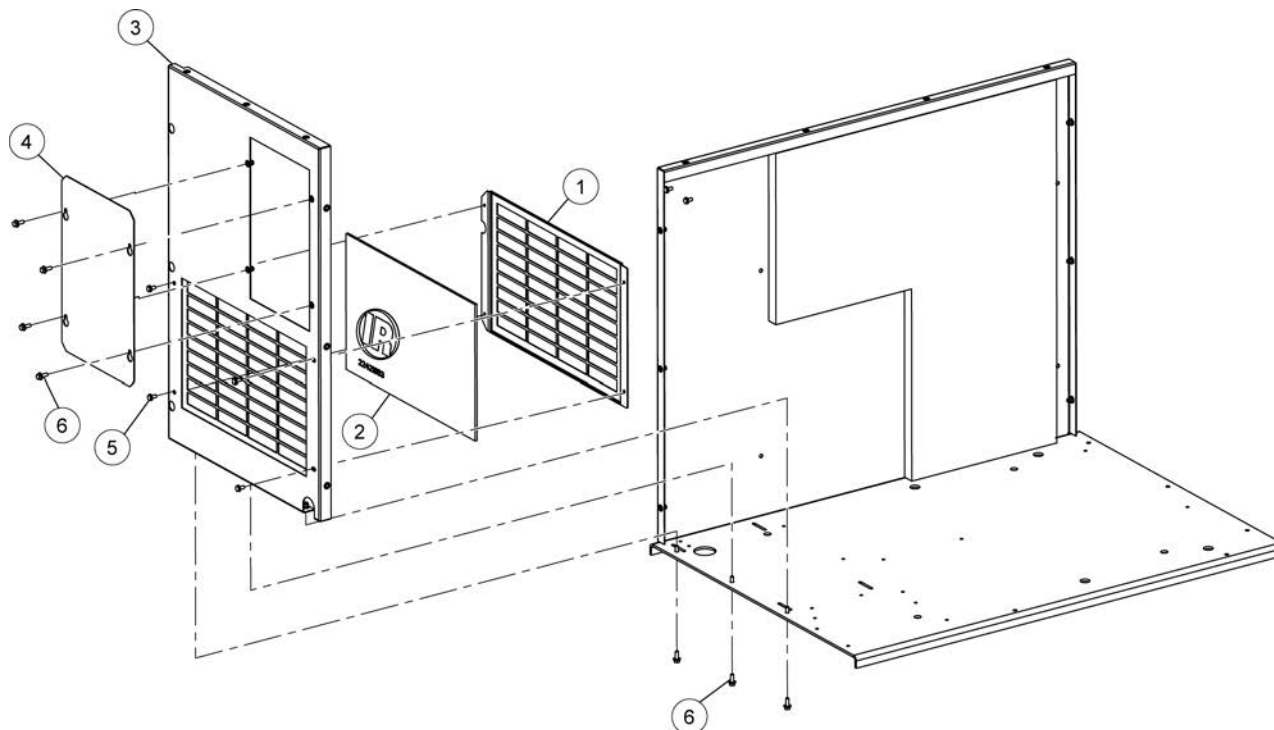
#### PARTS LIST

Item	Part No.	Description	Qty.
1	22421143	TRAY, PANEL FILTER UP-SERIES 5-15 hp	1
2	22421853	PAD, PRE-FILTER COMPRESSOR INLET	1
3	22460745	ASSEMBLY, LEFT PANEL (SHEET METAL/FOAM)	1
4	22593354	COVER, DISCHARGE OPENING (TANK MOUNTED STD. PKGS.)	1
5	92368687	TAPTITE SCREW M6-1 x 12 LONG	6
6	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	3

**NOTE: COVER 22593354 AND SCREWS 92368687 REQUIRED FOR 20 INCH TANK APPLICATION**

## ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Left End Panel to Base (Dryer)



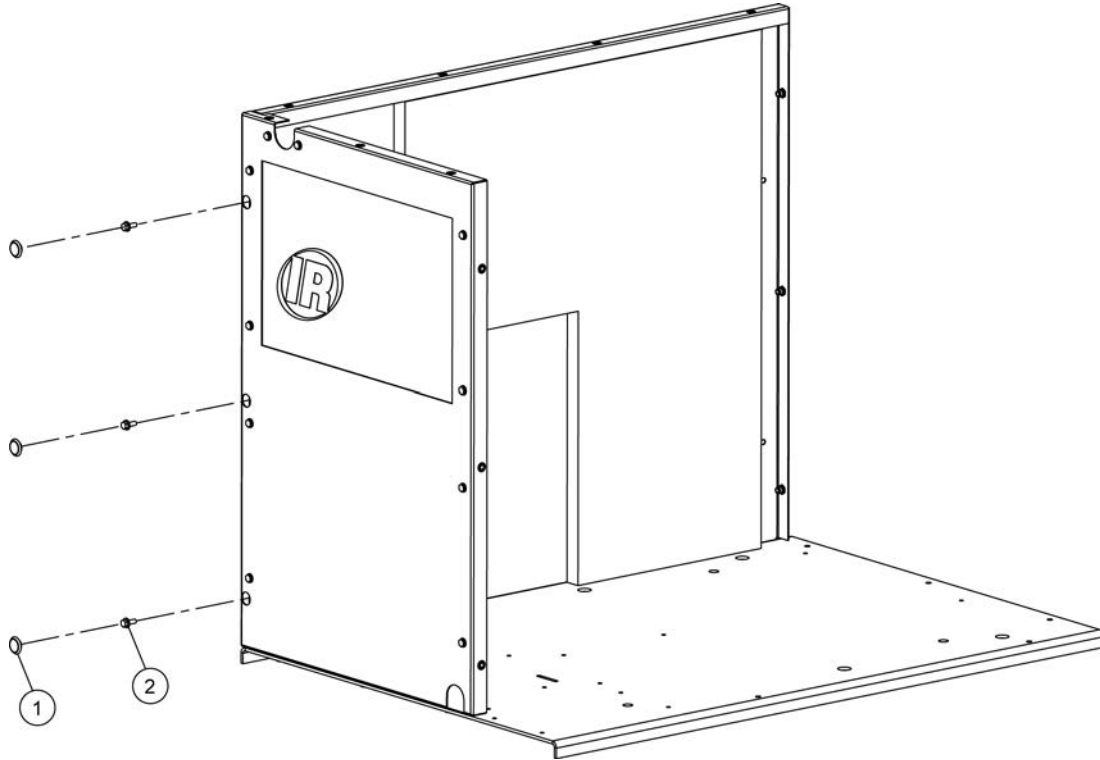
(Dwg. 22426928J4)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	22421143	TRAY, PANEL FILTER UP-SERIES 5-15 hp	1
2	22421853	PAD, PRE-FILTER COMPRESSOR INLET (FOUR PACK)	1
3	22481485	PANEL, LEFT END (UP-SERIES W/DRYER)	1
4	22481493	COVER, ACCESS (DRYER FILTERS)	1
5	92368687	TAPTITE SCREW M6-1 x 12 LONG	4
6	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	7

## ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Left Panel Side Mounting Screws and Caps



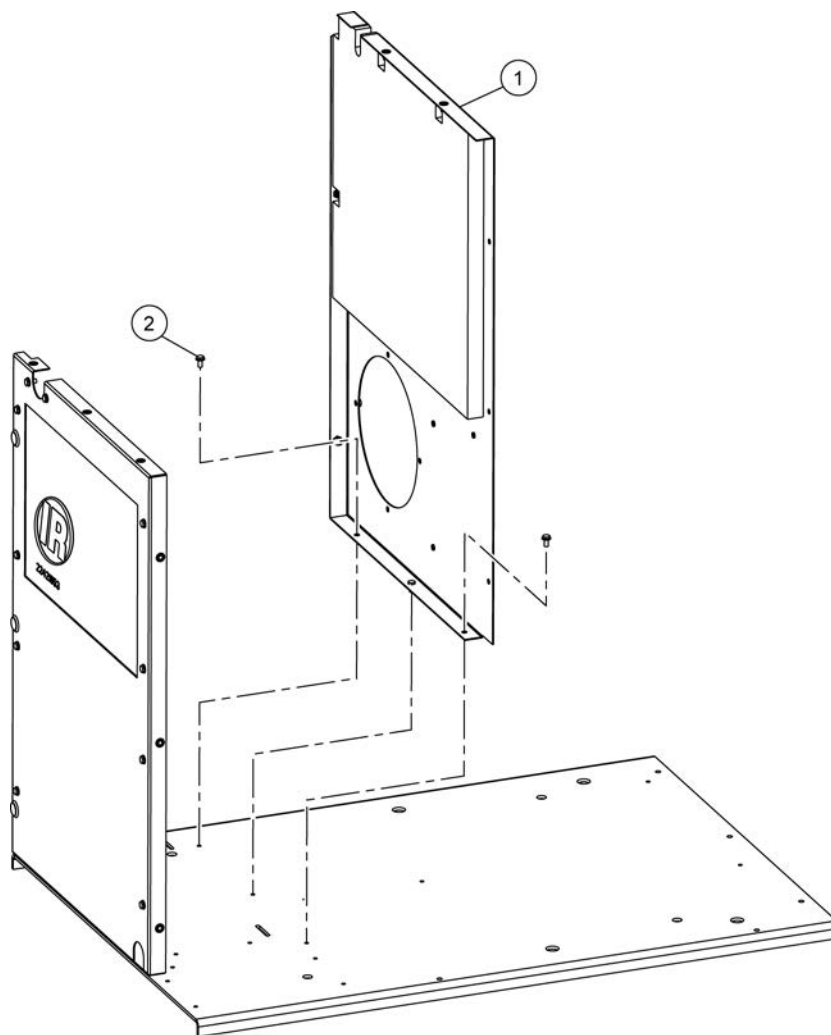
(Dwg. 22426928J5)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	22053433	CAP, PLASTIC 18 mm HOLE	3
2	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	3

## ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Blower Inlet Panel to Base



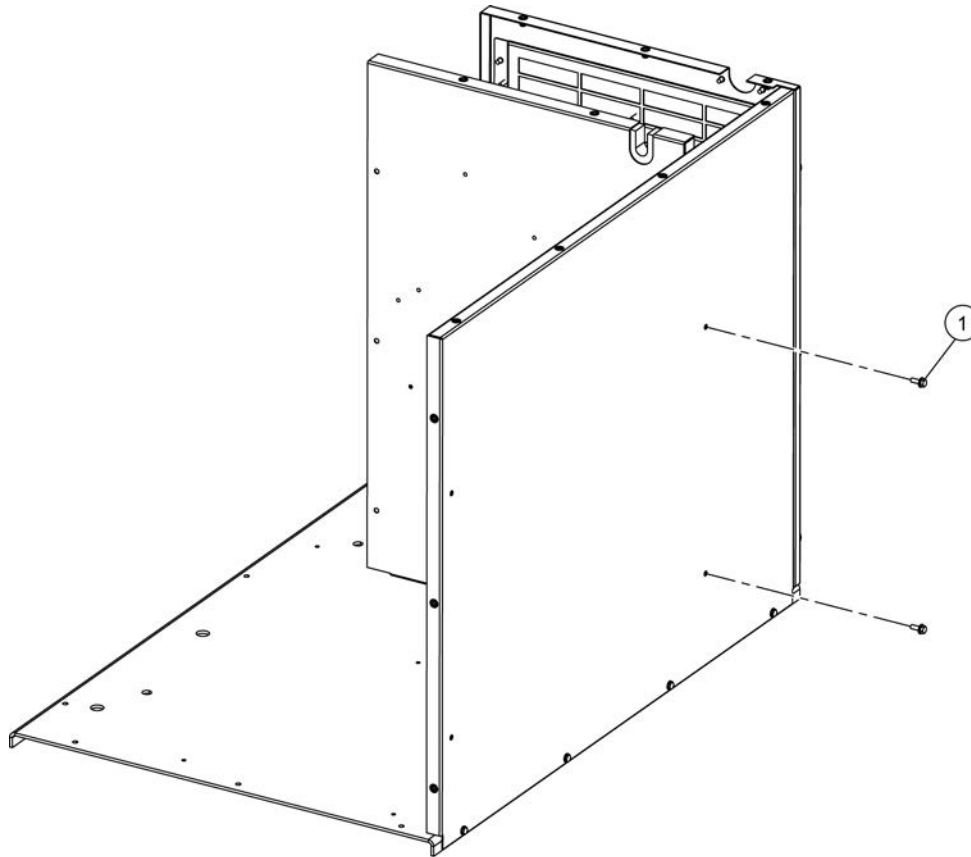
(Dwg. 22426928J6)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	22460752	ASSEMBLY, BLOWER PANEL 15 hp 60 Hz, 10 hp 60 Hz (W/O DRYER, W/FOAM)	1
	22317788	ASSEMBLY, BLOWER PANEL 15 hp 60 Hz, 10 hp 60 Hz (W/DRYER, NO FOAM)	1
	22460760	ASSEMBLY, BLOWER PANEL 7.5/11 kW 50 Hz, 4/5.5 kW 50 Hz (W/O DRYER, W/FOAM)	1
	22460034	ASSEMBLY, BLOWER PANEL 7.5/11 kW 50 Hz, 4/5.5 kW 50 Hz (W/DRYER, NO FOAM)	1
	45462660	ASSEMBLY, BLOWER PANEL 5/7.5 hp 60 Hz (W/O DRYER, W/FOAM)	1
	22394506	ASSEMBLY, BLOWER PANEL 5/7.5 hp 60 Hz (W/DRYER, NO FOAM)	1
2	92368687	TAPTITE SCREW M6-1 x 12 LONG	3

**ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Blower Inlet Panel Back Mounting Screws**



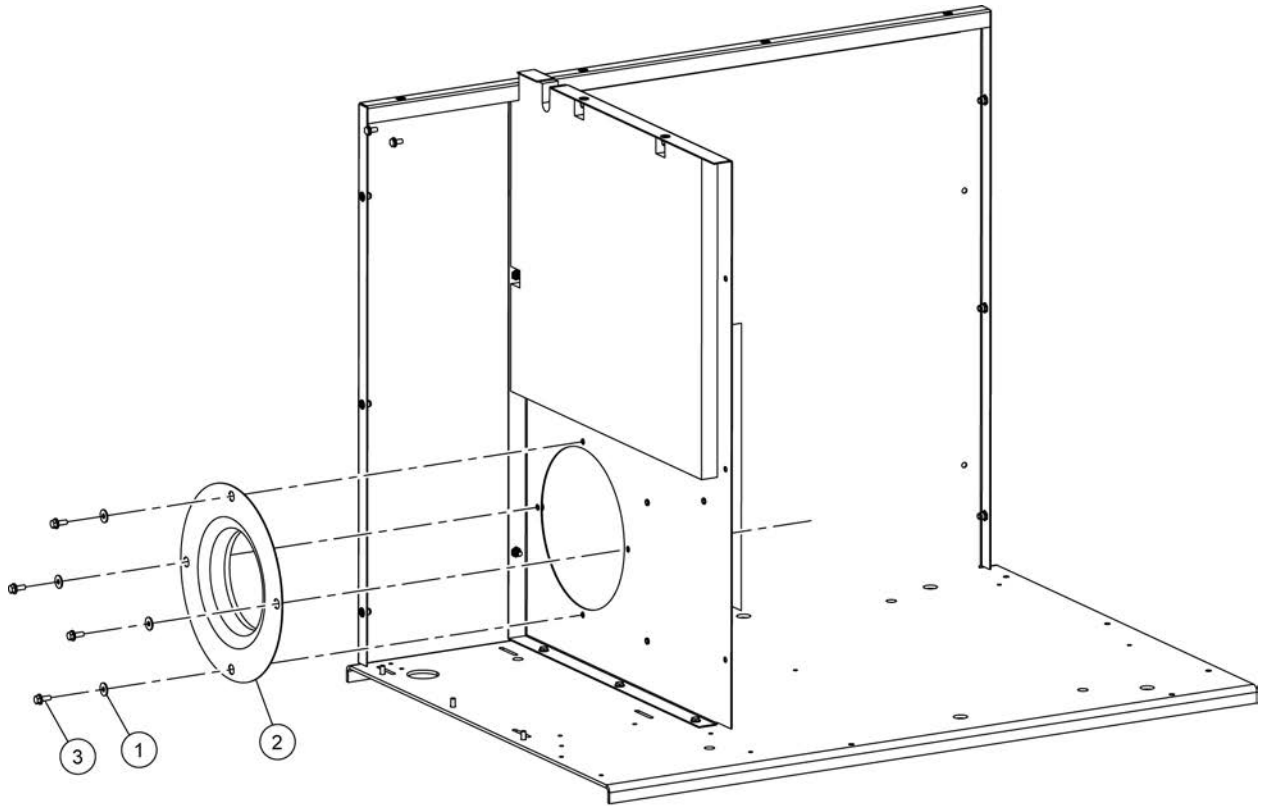
(Dwg. 22426928J7)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	2

## ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Blower Inlet Cone 60 Hz



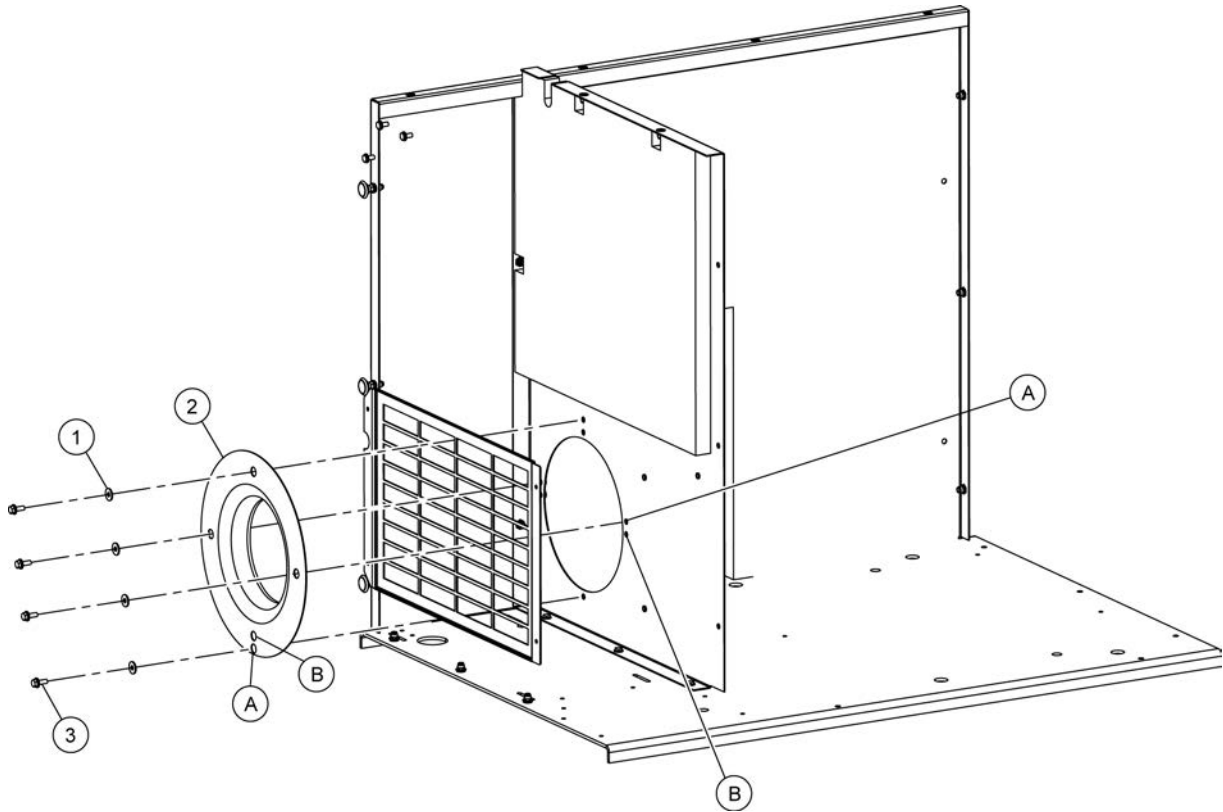
(Dwg. 22426928J8)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	14084123	WASHER, LARGE M6 NO CHAMFER	4
2	22348239	CONE, INLET, 10/15 hp 60 Hz	1
	22348221	CONE, INLET, 5/7.5 hp 60 Hz	1
3	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	4

## ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Blower Inlet Cone 50 Hz



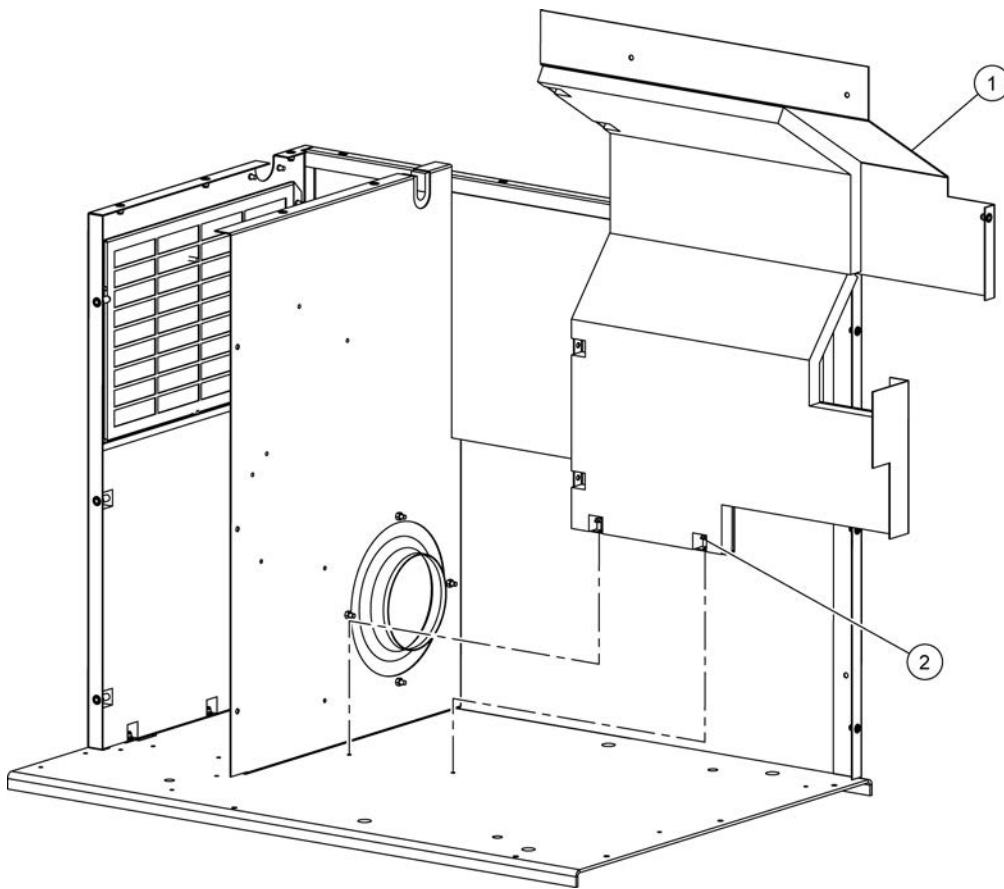
(Dwg. 22426928J9)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	14084123	WASHER, LARGE M6 NO CHAMFER	4
2	22348239	CONE, INLET, 4/5.5 kW 50 Hz (B)	1
	22348247	CONE, INLET, 7.5/11 kW 50 Hz (A)	1
3	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	4

**ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Divider Panel**



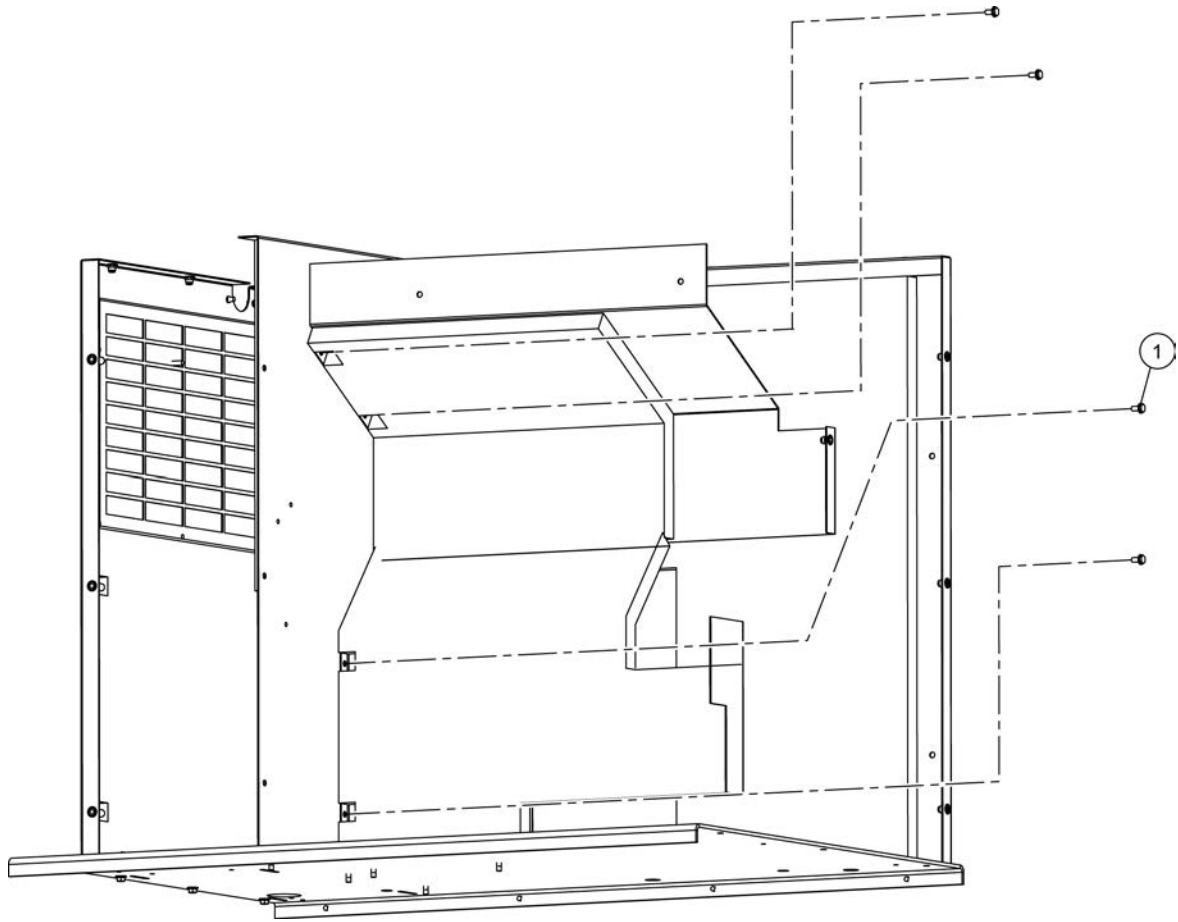
(Dwg. 22426928J10)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	22460786	ASSEMBLY, DIVIDER PANEL (SHEET METAL/FOAM)	1
2	92368687	TAPTITE SCREW M6-1 x 12 LONG	2

# ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Divider Panel Side Mounting Screws



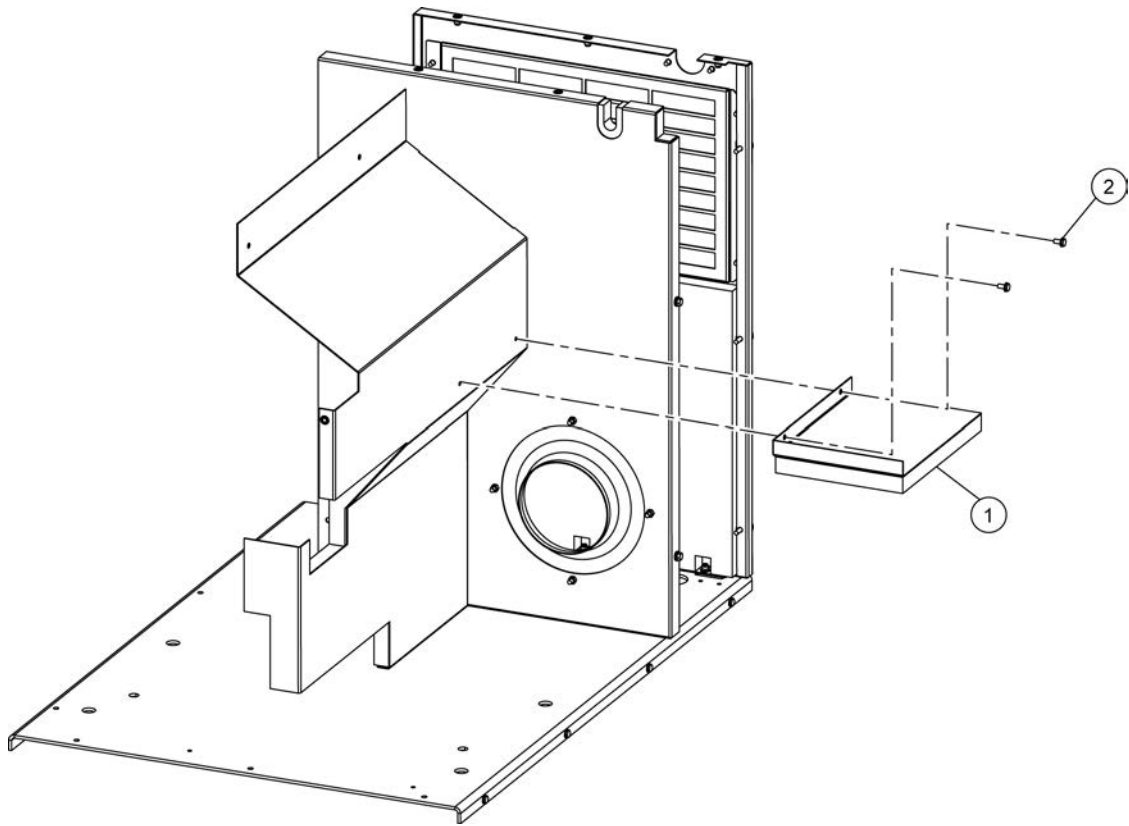
(Dwg. 22426928J11)

### PARTS LIST

Item	Part No.	Description	Qty.
1	92368687	TAPTITE SCREW M6-1 x 12 LONG	4

# ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Motor Noise Reduction Panel



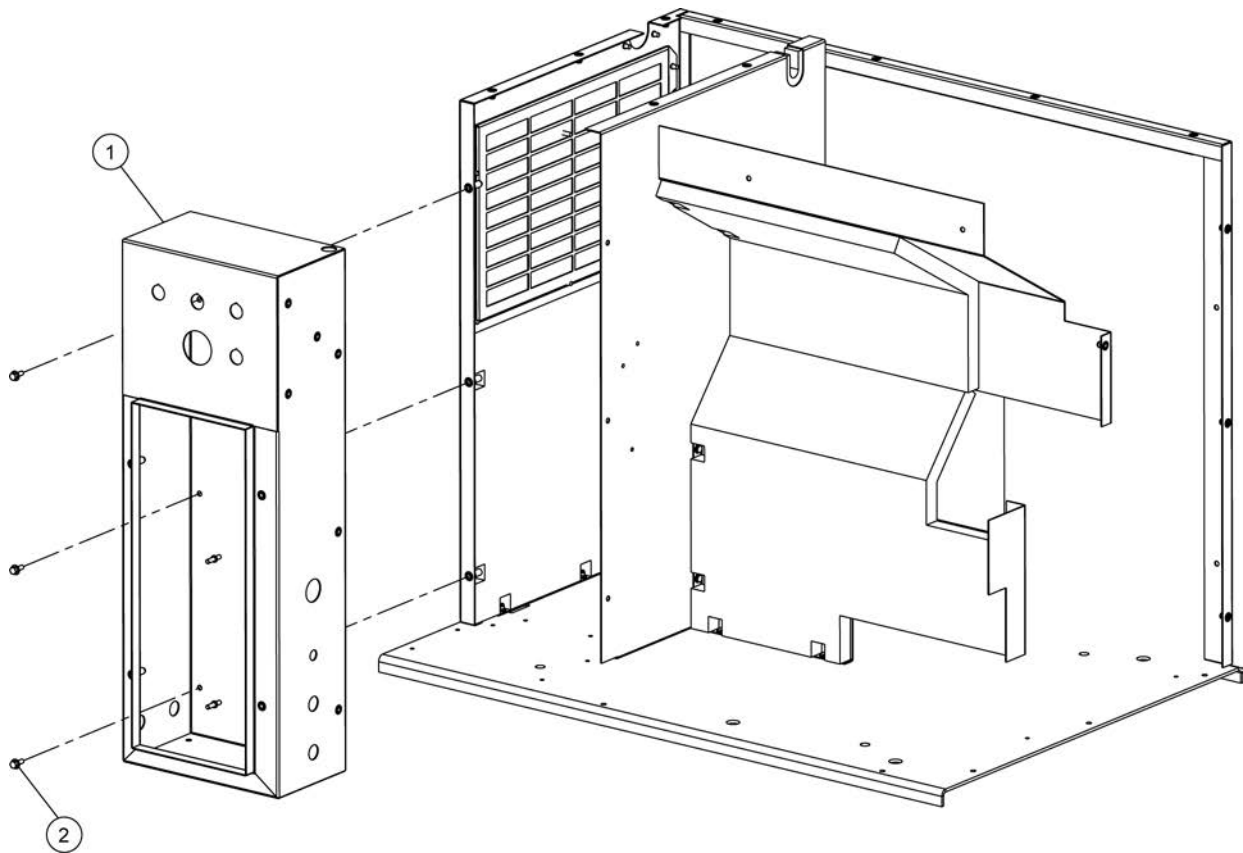
(Dwg. 22426928J12)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22460737	ASSEMBLY, MOTOR PANEL (SHEET METAL/FOAM)	1
2	92368687	TAPTITE SCREW M6-1 x 12 LONG	2

## ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Starter Box to Main Enclosure



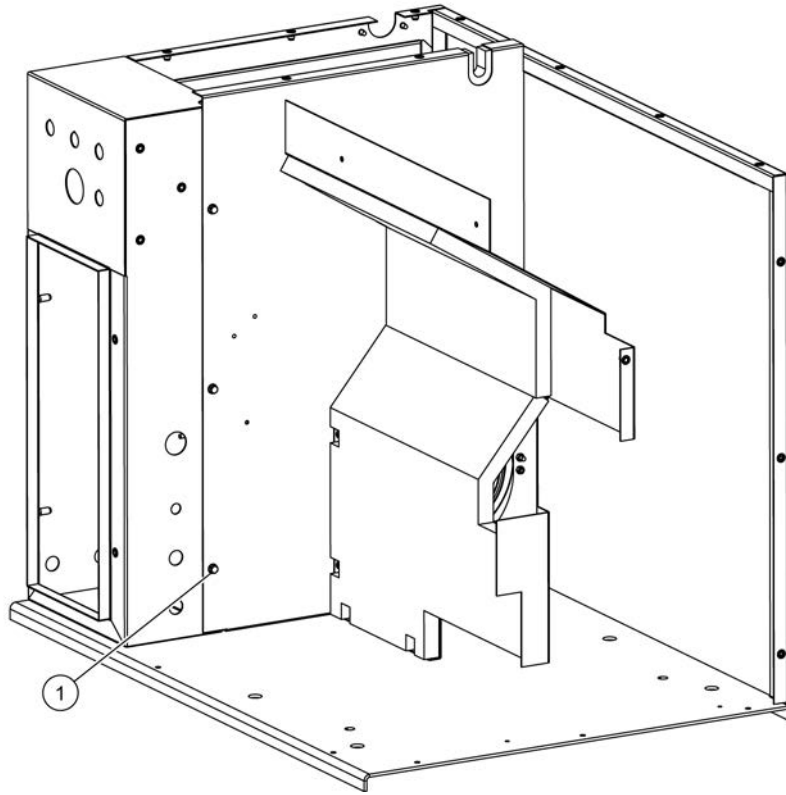
(Dwg. 22426928J13)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	22513428	ASSEMBLY, STARTER BOX UP-SERIES 5-15 hp	1
2	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	3

# ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Starter Box Side Mounting Screws



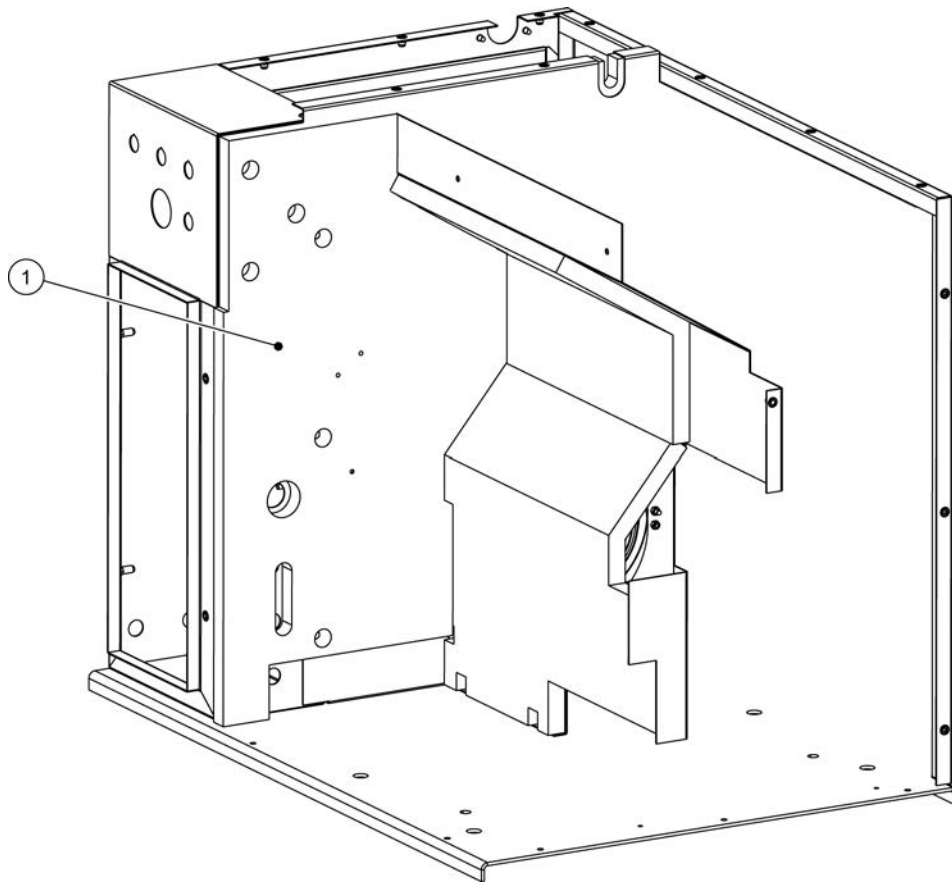
(Dwg. 22426928J14)

### PARTS LIST

Item	Part No.	Description	Qty.
1	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	3

# ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Starter Box /Blower Panel Foam



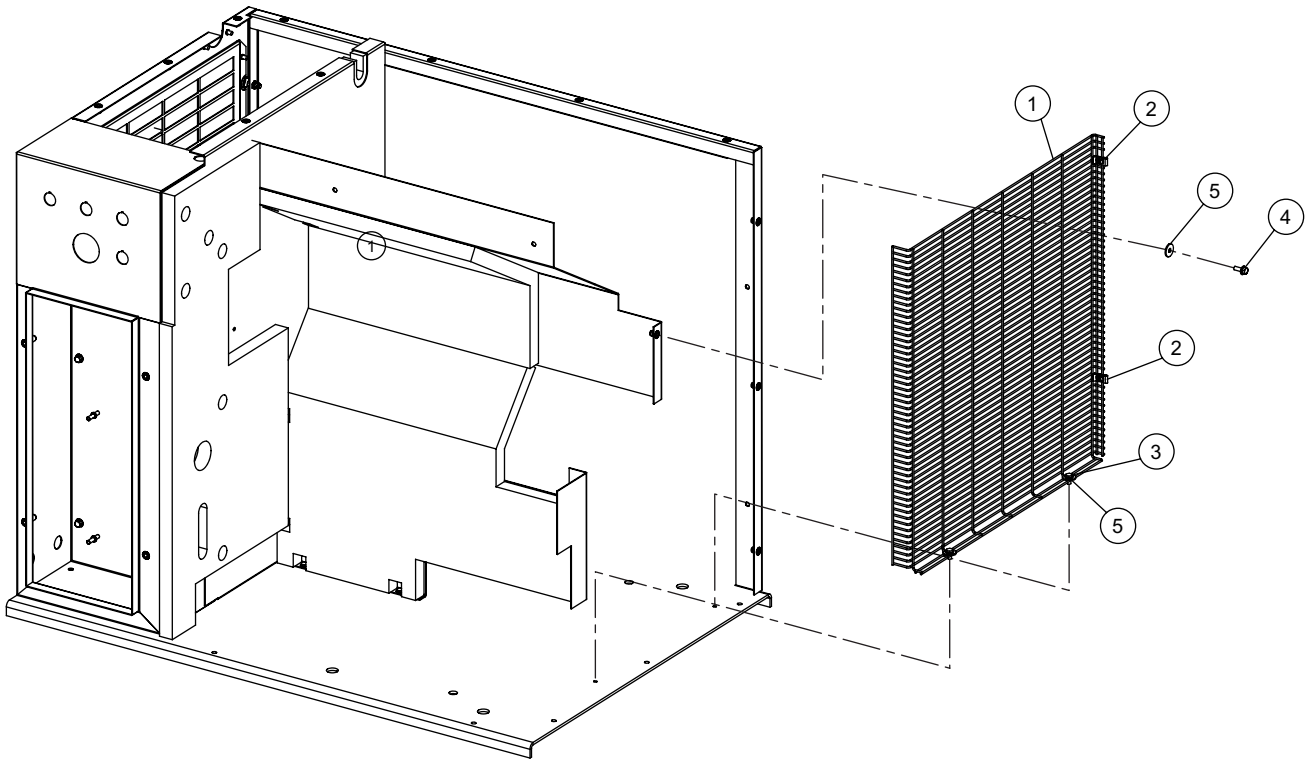
(Dwg. 22426928J15)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22386429	FOAM, STARTER BOX PANEL 25.4 mm THICK	1

# ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Wire Beltguard to Enclosure



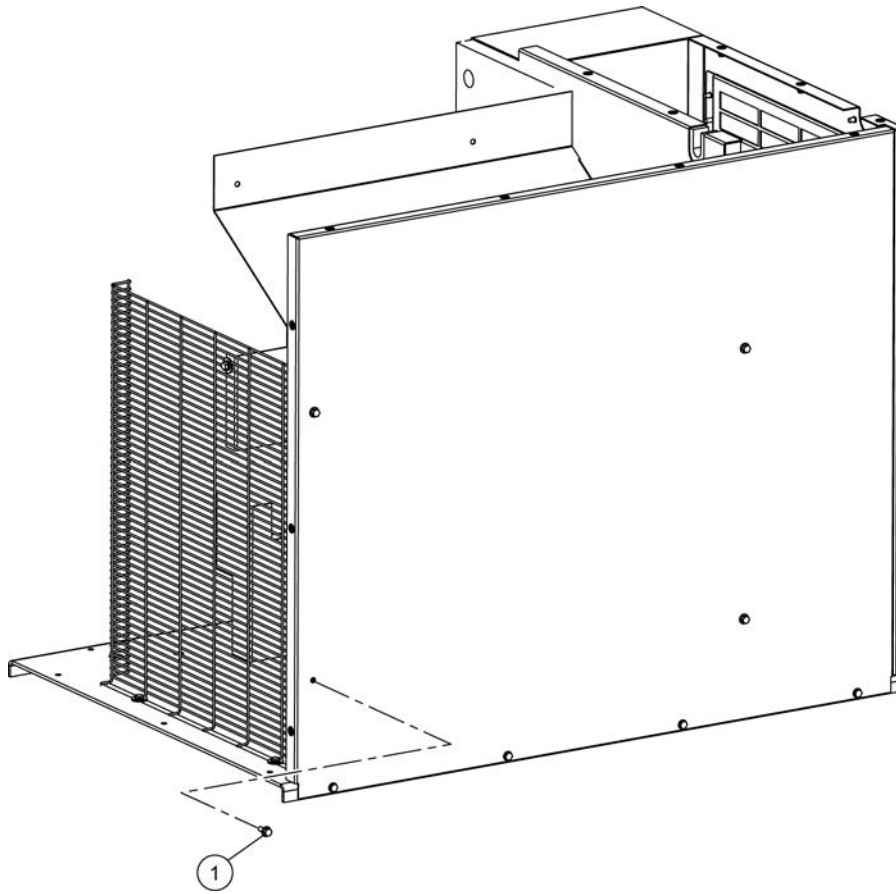
(Dwg. 22426928J16)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22401244	GUARD, BELT UP-SERIES 5-15 hp	1
2	85582823	FASTENER, U-TYPE M6-1	2
3	92368687	TAPTITE SCREW M6-1 x 12 LONG	2
4	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	1
5	96745559	WASHER, LARGE OUTSIDE DIAMETER PRODUCT GRADE C M6	3

# ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Beltguard Back Mounting Screws



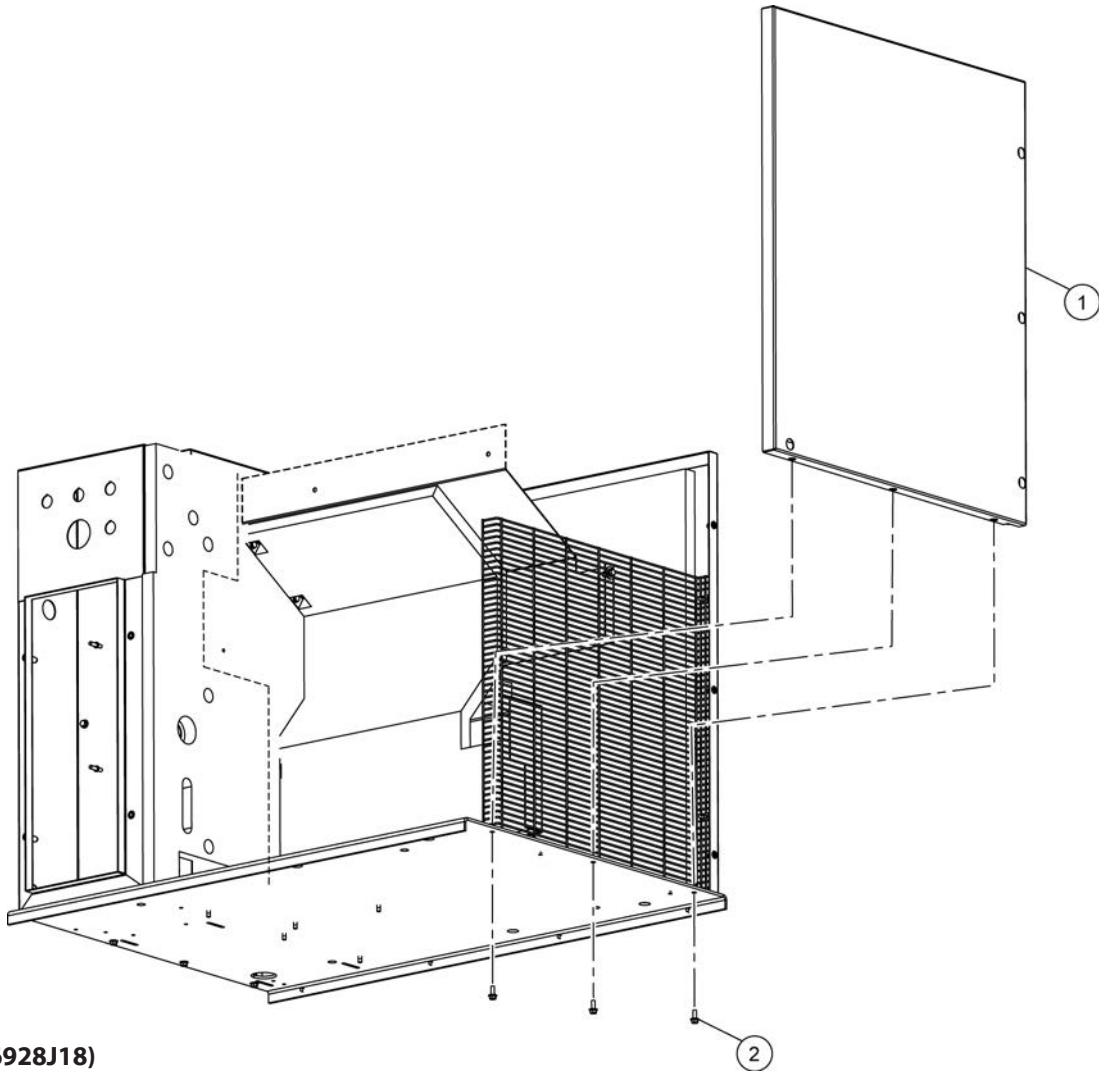
(Dwg. .22426928J17)

### PARTS LIST

Item	Part No.	Description	Qty.
1	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	2

## ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

**Assemble Right Side Panel to Base**



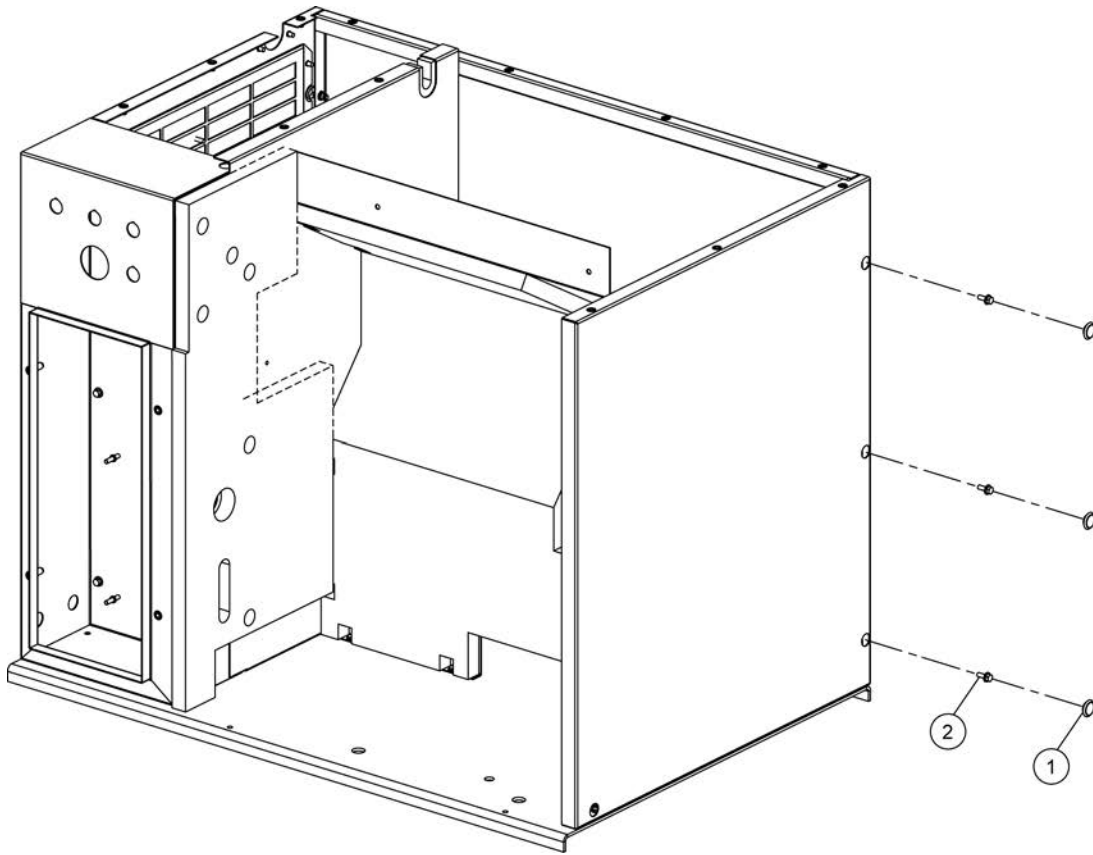
(Dwg. 22426928J18)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	22460711	ASSEMBLY, RIGHT PANEL (SHEET METAL/FOAM)	1
2	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	3

## ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Right Side Panel Side Mounting Screws and Caps



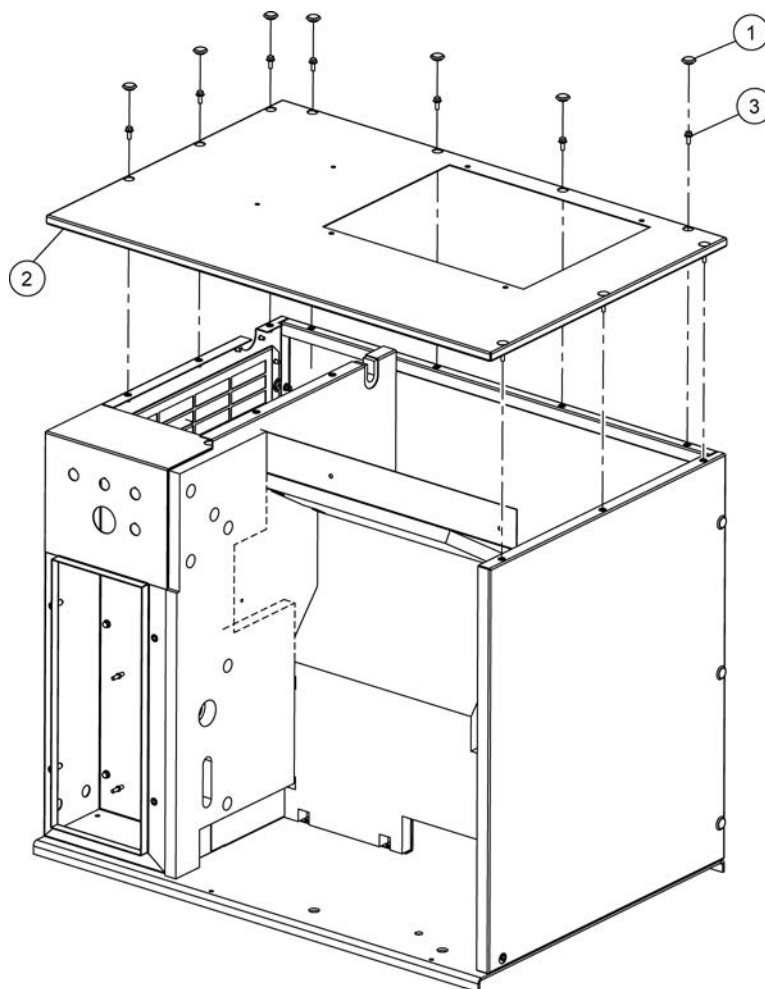
(Dwg. 22426928J19)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	22053433	CAP, PLASTIC 18 mm HOLE	3
2	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	3

## ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Top Panel



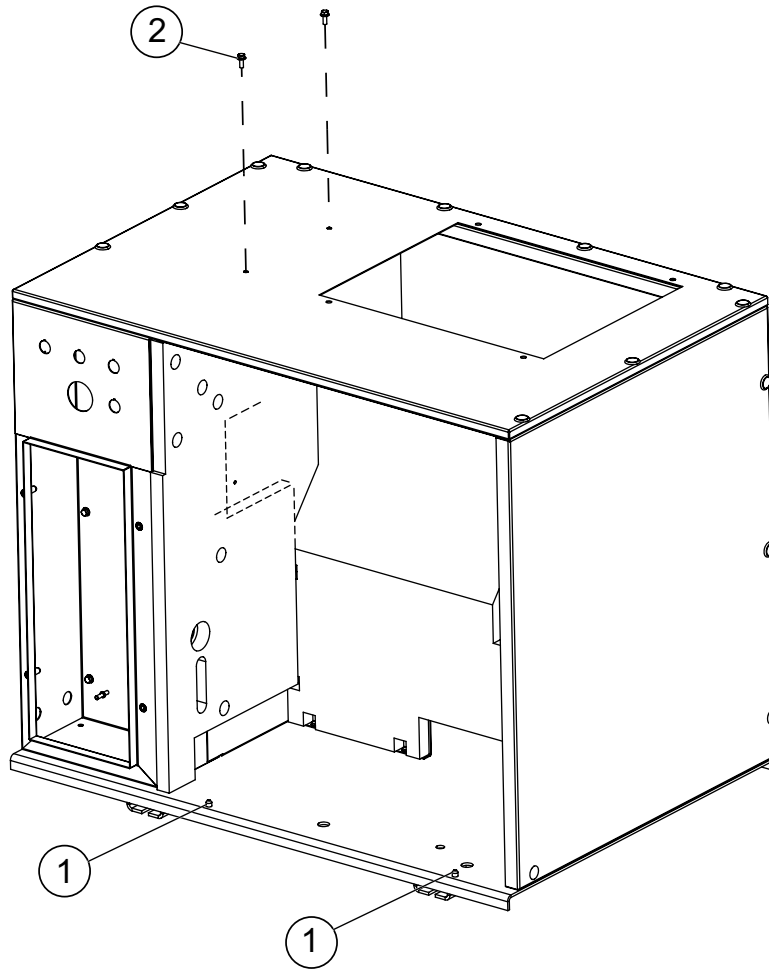
(Dwg. 22426928J20)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22053433	CAP, PLASTIC 18 mm HOLE	10
2	22460778	ASSEMBLY, TOP PANEL (SHEET METAL/FOAM)	1
3	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	10

## ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Blower Panel Top Screws and Front Panel Locator Pins



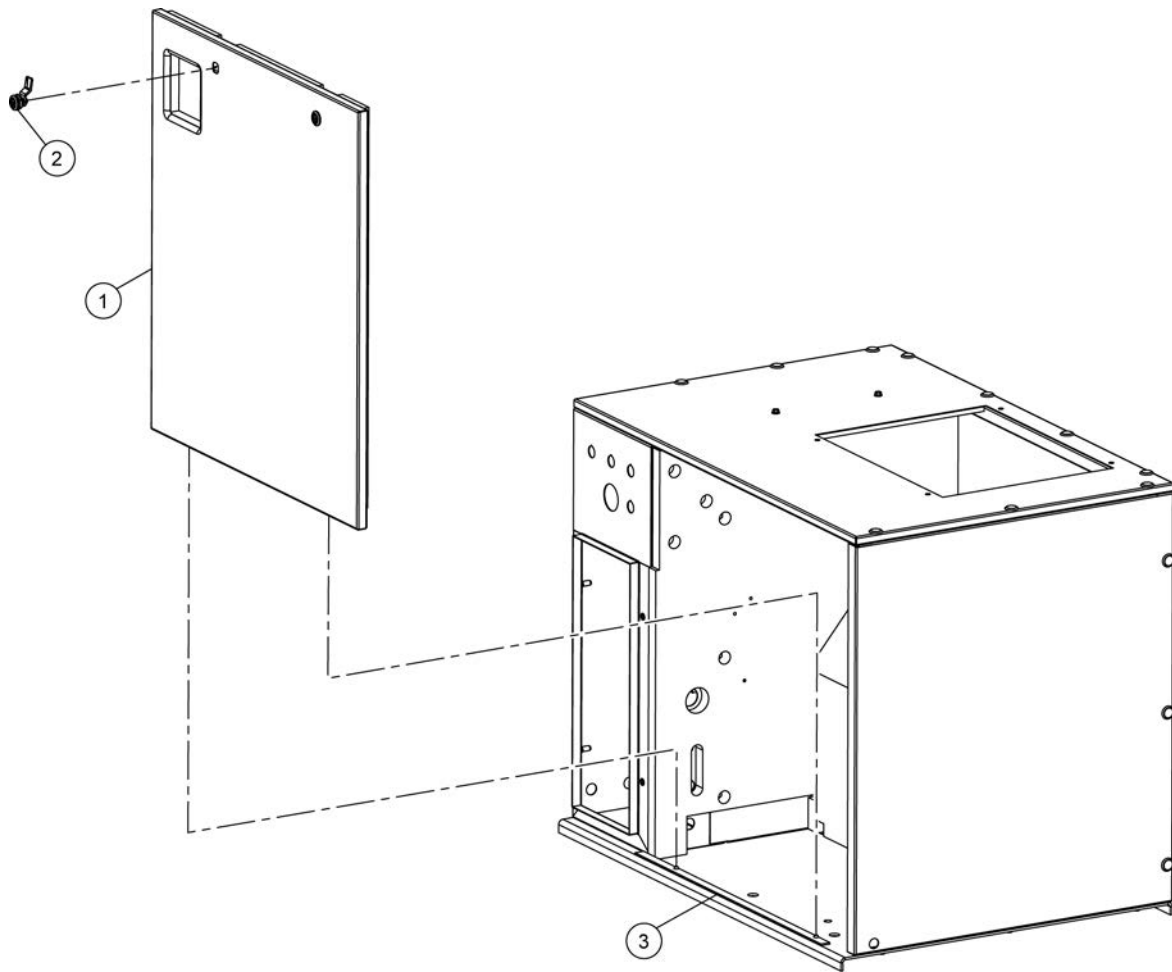
(Dwg. 22426928J21)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	39138490	PIN, LOCATOR 0.375 INCH	2
2	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	2

## ENCLOSURE (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Front Panel and Latches



(Dwg. 22426928J22)

#### PARTS LIST

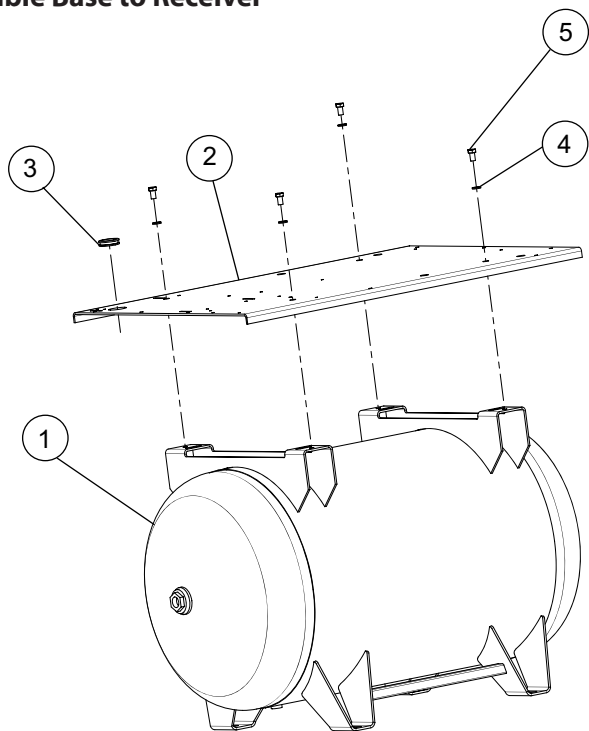
Item	Part No.	Description	Qty.
1	22460703	ASSEMBLY, FRONT PANEL (SHEET METAL/FOAM)	1
2	23180557	LATCH, DOOR (NEMA 4) 28 mm HEAD / 28 mm OFFSET	2
3	85038412	GASKET, 0.125 INCH x 0.75 INCH (27.0 INCH LONG.)	1

**NOTE:**

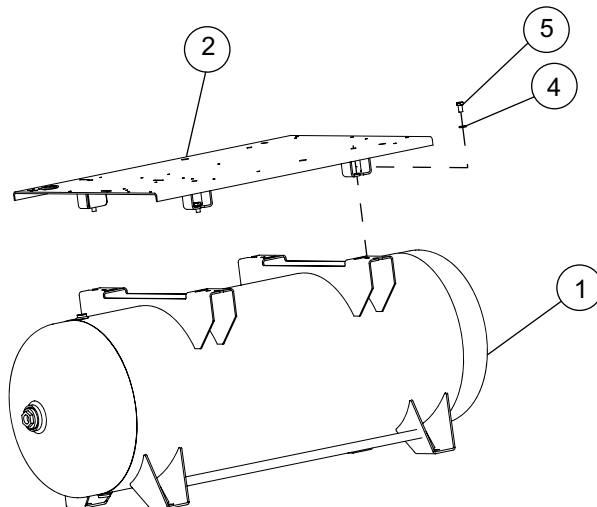
**APPLY ADHESIVE BACKED GASKET TO BOTTOM EDGE OF FRONT PANEL.**

## AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Base to Receiver



22426936AA2



22426936AA3

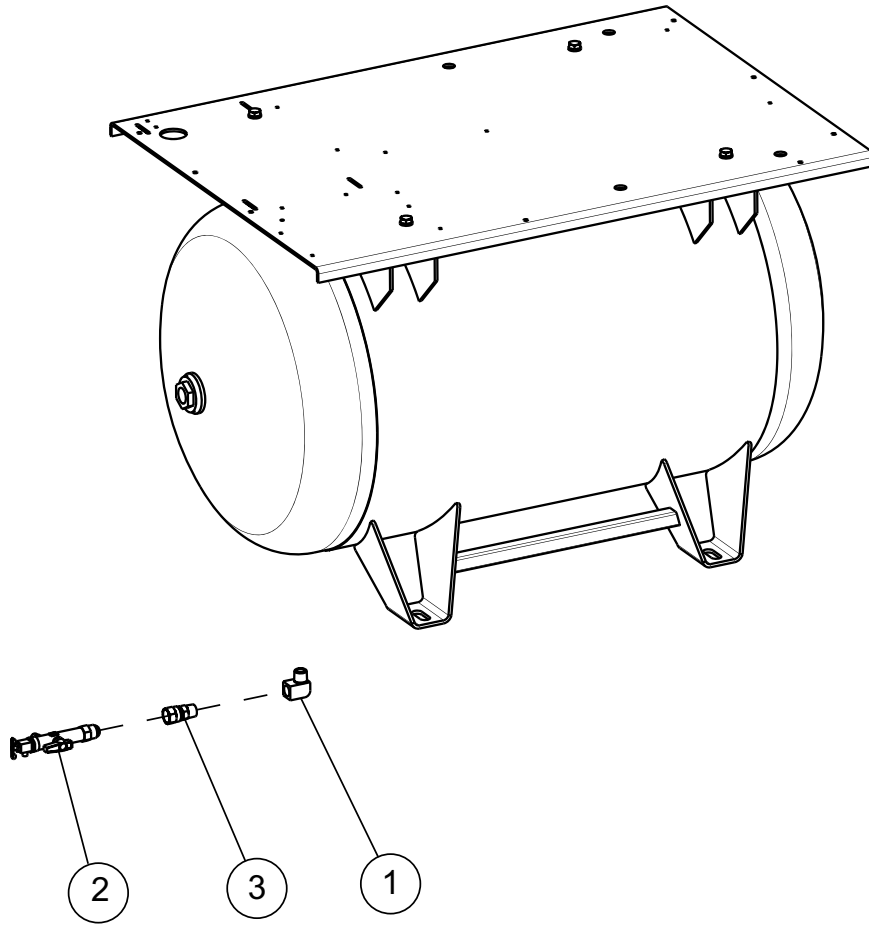
(Dwg. 22426936AA2, 22426936AA3)

### PARTS LIST

Item	Part No.	Description	Qty.
1	24246035	80 GAL (ASME) - 20 INCH DIA < 200 psig	1
	47618489001	80 GAL (ASME) - 24 INCH DIA > 200 psig	1
	22348296	120 GAL (ASME)	1
	18999805	272 LITRE 11 BAR CHINA	1
	22479430	272 LITRE 11 BAR AUSTRALIA	1
	22505614	272 LITRE 11 BAR SINGAPORE/MALAYSIA	1
	70276951	272 LITRE 11 BAR INDIA	1
	23730476	272 LITRE 11 BAR ESA	1
	18999813	272 LITRE 16 BAR CHINA	1
	22436307	272 LITRE 16 BAR AUSTRALIA	1
	70276977	272 LITRE 16 BAR INDIA	1
	24024093	272 LITRE 16 BAR ESA	1
	22479448	500 LITRE 11 BAR CHINA	1
	22505580	500 LITRE 11 BAR AUSTRALIA	1
	22505622	500 LITRE 11 BAR SINGAPORE/MALAYSIA	1
	70276969	500 LITRE 11 BAR INDIA	1
	23730468	500 LITRE 11 BAR ESA	1
	22391023	500 LITRE 16 BAR CHINA	1
	22505606	500 LITRE 16 BAR AUSTRALIA	1
	70276985	500 LITRE 16 BAR INDIA	1
24024101	500 LITRE 16 BAR ESA	1	
2	22313001	BASE, TANK MOUNT UP-SERIES 5-15HP	1
	47618496001	BASE, TANK MOUNT UP-SERIES 5-15HP (N.A.)	1
3	24161168	GROMMET, INSULATION FOR 1.75 INCH HOLE, 1.5 INCH ID, 2.0 INCH OD	1
4	32346439	WASHER, LOCK - 12 mm	4
5	96719869	SCREW, HEX HEAD M12-1.75 x 20 LONG	4
	96701495	SCREW, HEX HEAD (FOR EMEA ONLY)	

# AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Electric Drain Valve Assembly



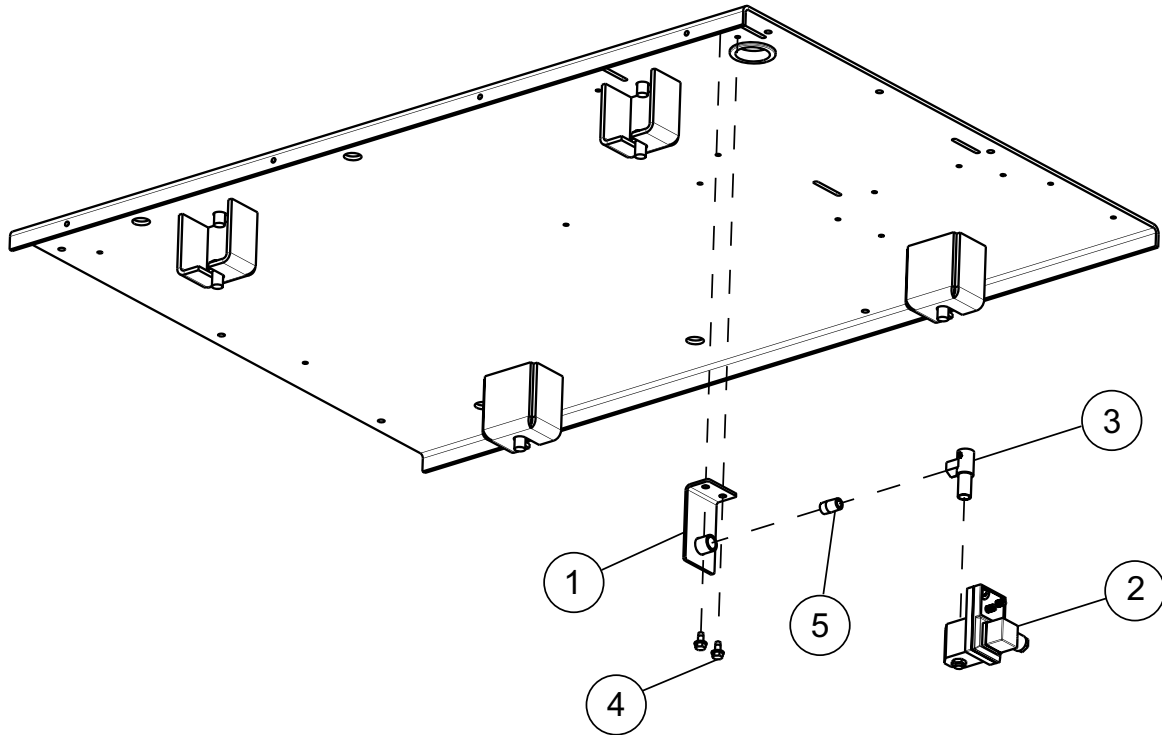
(Dwg. 22426936AA4)

### PARTS LIST

Item	Part No.	Description	Qty.
1	16545998	ELBOW, STREET, 0.50, 80 GAL (STD)	1
	16545998	ELBOW, STREET, 0.50, 120 GAL (STD)	1
	92354513	ELBOW, STREET, 0.50, 272 LITRE (STD)	1
	92354513	ELBOW, STREET, 0.50, 500 LITRE (STD)	1
2	54579248	ASSY., ELECTRIC DRAIN VALVE	1
3	95989638	CONNECTOR, 0.50, 80 GAL (STD)	1
	95989638	CONNECTOR, 0.50, 120 GAL (STD)	1
	22062327	CONNECTOR, 0.50, 272 LITRE (STD)	1
	22062327	CONNECTOR, 0.50, 500 LITRE (STD)	1

## AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Electric Drain Valve Solenoid to Base



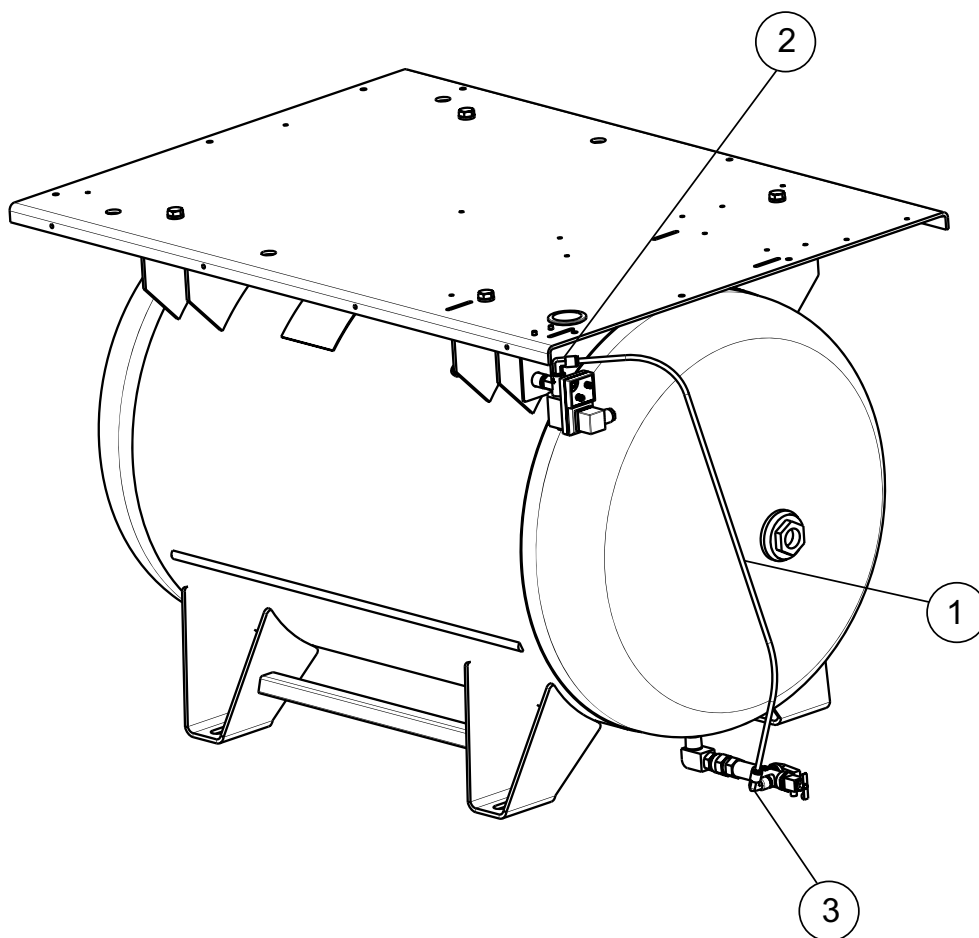
(Dwg. 22426936AA5)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	22457824	BRACKET, MOUNTING (EDV-2000)UP-SERIES 5-15 hp	1
2	54579248	SOLENOID, EDV (PART OF EDV ASSEMBLY 54579248)	1
3	54579248	TEE, EDV CONNECTOR (PART OF EDV ASSEMBLY 54579248)	1
4	92368687	TAPTITE SCREW M6-1 x 12 LONG	2
5	95667341	NIPPLE, EXTRA STRONG 0.25 NPT x 0.88 INCH LONG	1

## AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Electric Drain Valve Fittings and Tube



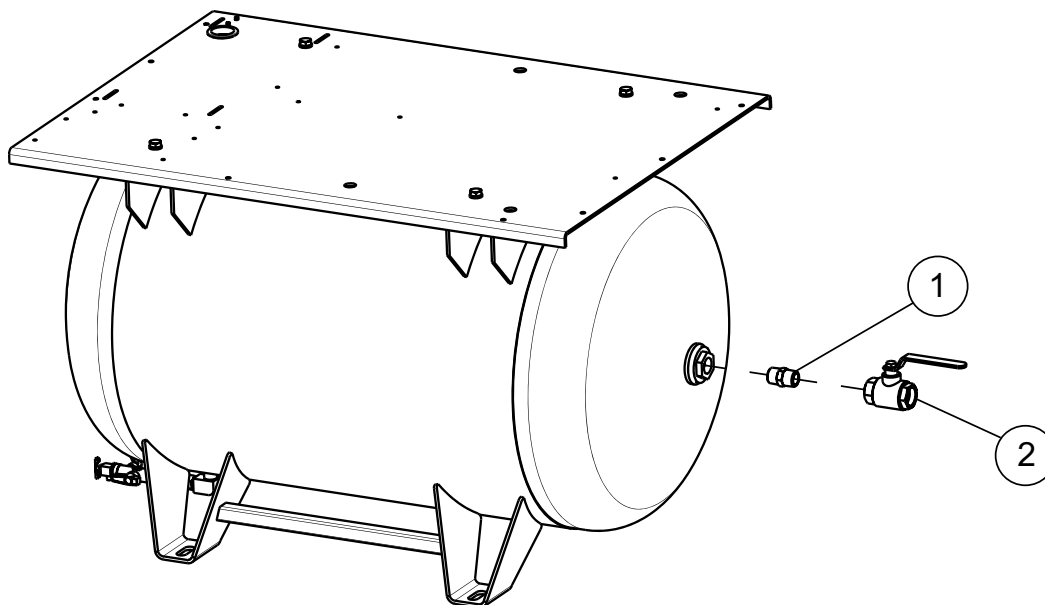
(Dwg. 22426936AA6)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	39124813	TUBE, NYLON 0.25 INCH (BLACK)	2.7 FT.
2	39155478	ELBOW, 0.25 NPT x 0.25 INCH TUBING	1
3	39156336	ELBOW, 0.25 FNPT x 0.25 INCH TUBE	1

**AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Receiver Ball Valve**



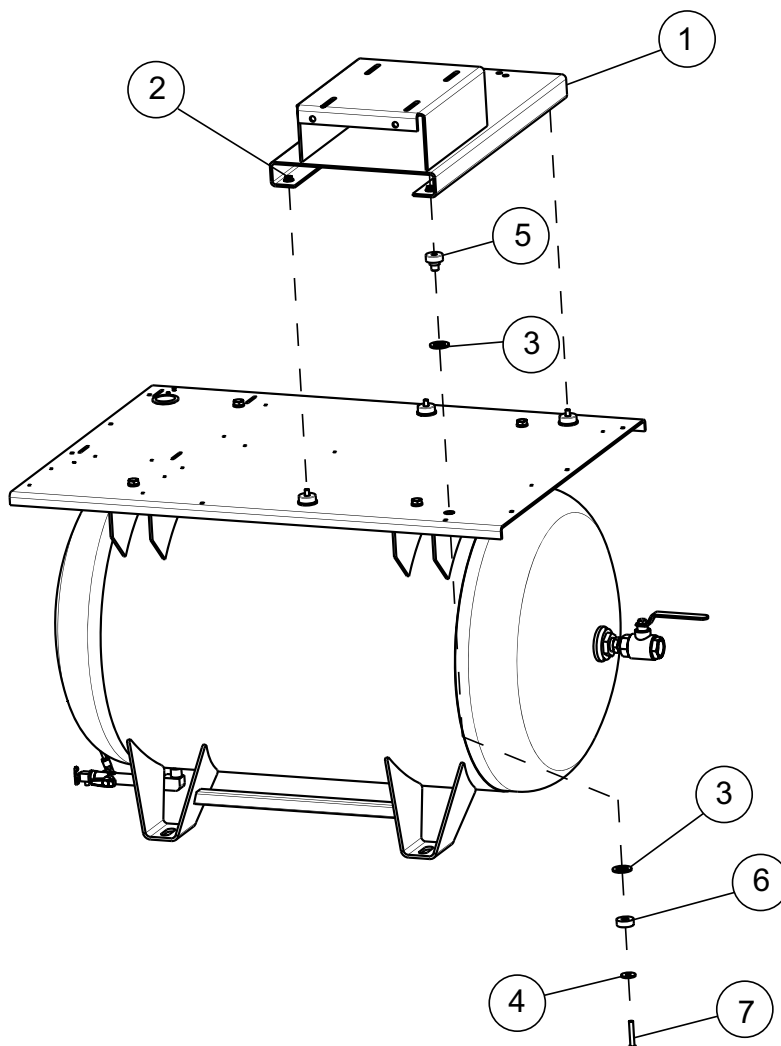
(Dwg. 22426936AA7)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	92255934	NIPPLE, 0.75 (LITRE)	1
2	32223596	VALVE, BALL, 0.75 (GALLON, ASME)	1
	93179661	VALVE, BALL, 0.75 (LITRE)	1

## AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Motor/Airend Isolation Base to Main Base



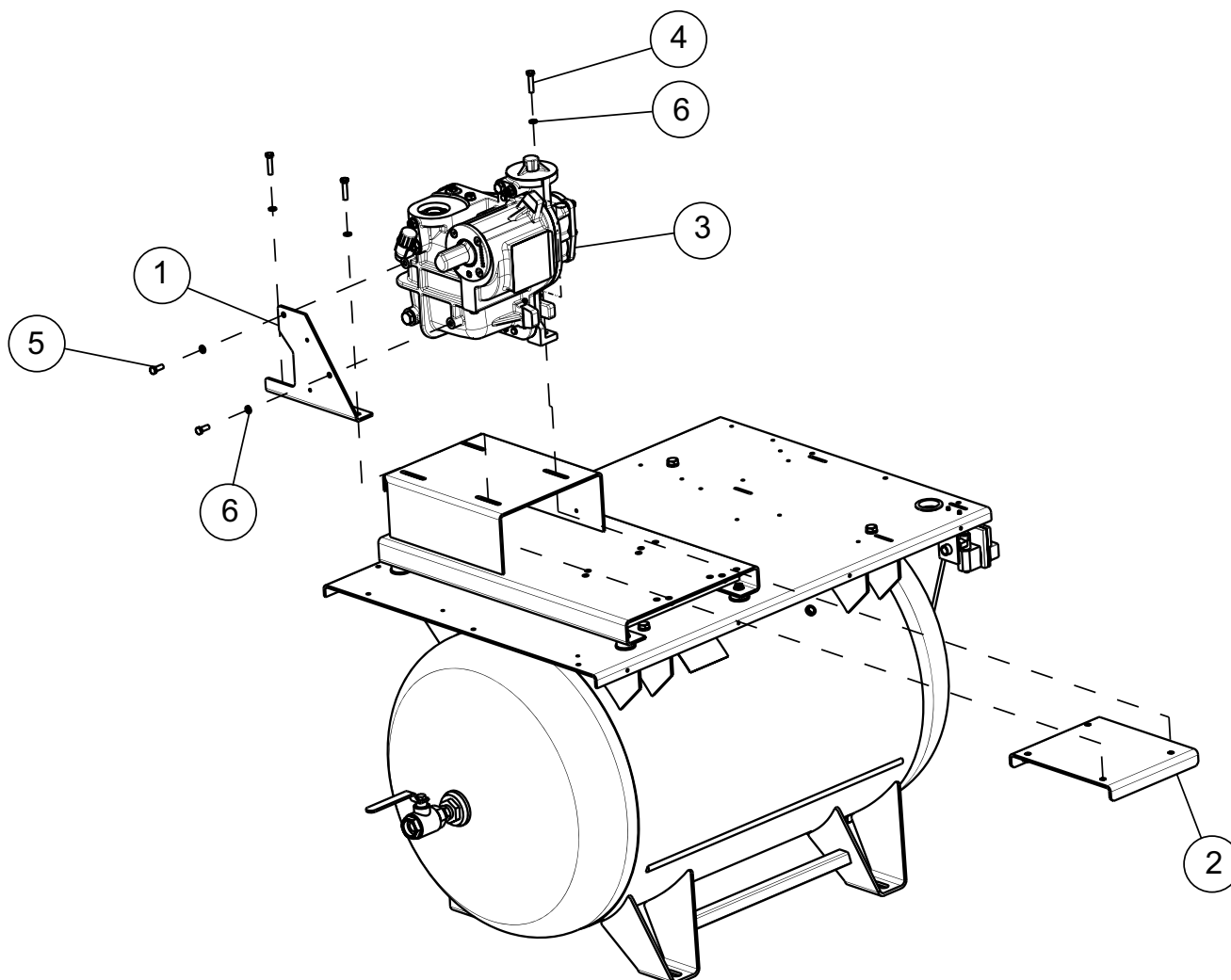
(Dwg. 22426936AA8)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	22348486	ASSEMBLY, BASE PLATE MOTOR/AIREND	1
2	96704416	NUT, HEX FLANGE LOCK SERRATED M8-1.25	4
3	96726971	WASHER, M20 PLAIN GRADE C	8
4	96740188	WASHER, LARGE OUTSIDE DIAMETER PRODUCT GRADE C M8	4
5	22355341	ISOLATOR, AIREND (MALE)(PART OF ISOLATOR ASSEMBLY 22355341)	4
6	22355341	ISOLATOR, AIREND (FEMALE)(PART OF ISOLATOR ASSEMBLY 22355341)	4
7	96702402	CAPSCREW, HEX HEAD M8 x 50	4

# AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Airend Subassembly to Isolation Base



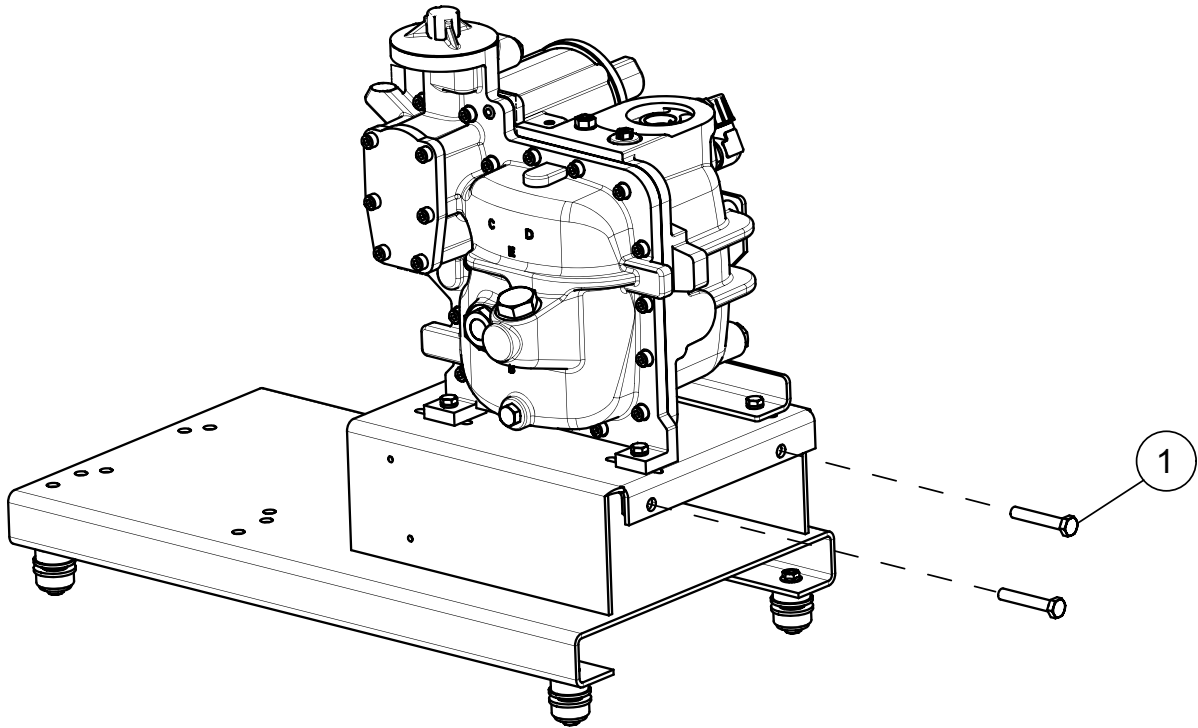
(Dwg. 22426936AA9)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22288633	SUPPORT, AIREND (BACK) 10/15 hp	1
2	22357388	PLATE, BELT TIGHTENER	1
3	22465926	ASSY, SUB, CE55, 15 hp BELT DRIVE	1
4	96702261	SCREW, HEX HEAD M8-1.25 x 35.0 LONG	4
5	96702824	SCREW, HEX HEAD M8-1.25 x 20.0 LONG	2
6	96728316	LOCKWASHER, SPRING - M8	6

# AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Belt Tension Adjustment Screws



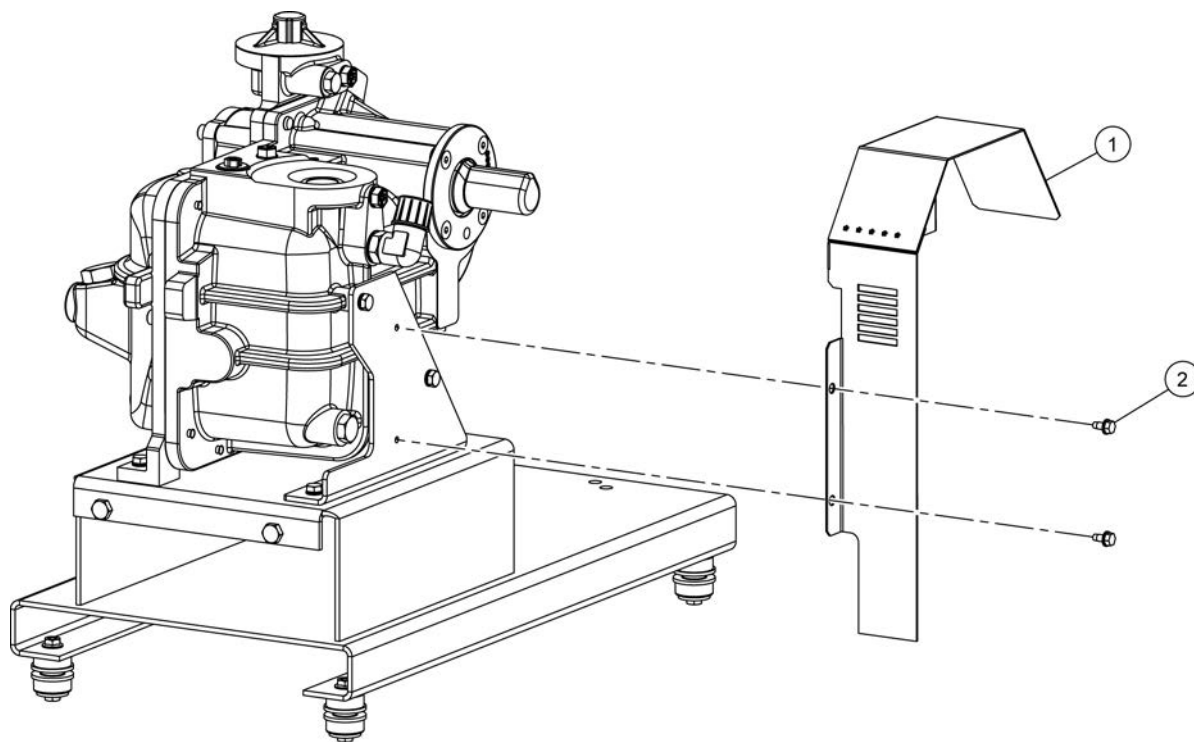
(Dwg. 22426936AA10)

### PARTS LIST

Item	Part No.	Description	Qty.
1	96704960	SCREW, HEX HEAD M10-1.50 x 60.0 LONG	2

# AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Airend Sheave Guard



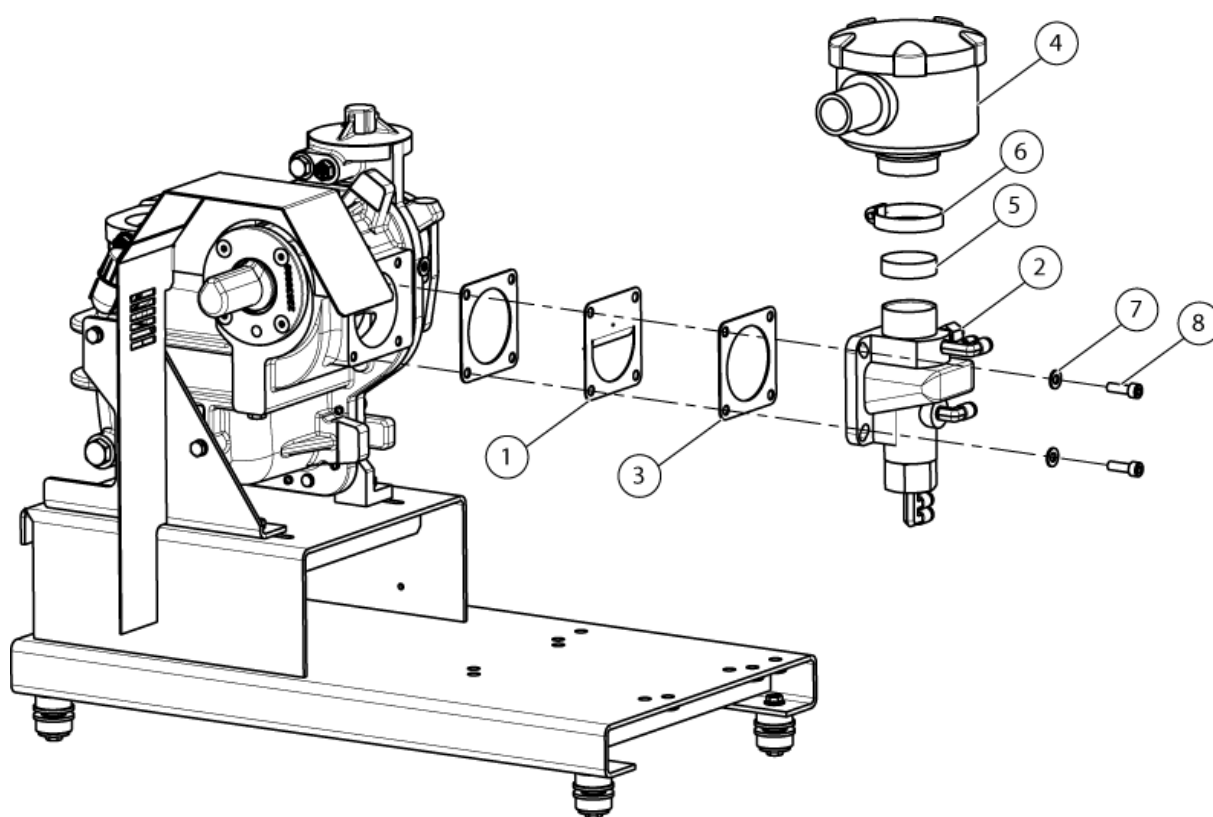
(Dwg. 22426936AA11)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22404834	ASSEMBLY, BELT GUARD UP-SERIES 5-15 hp	1
2	92368687	TAPTITE SCREW M6-1 x 12 LONG	2

## AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

Assemble Inlet Valve and Air Filter Assembly to Airend



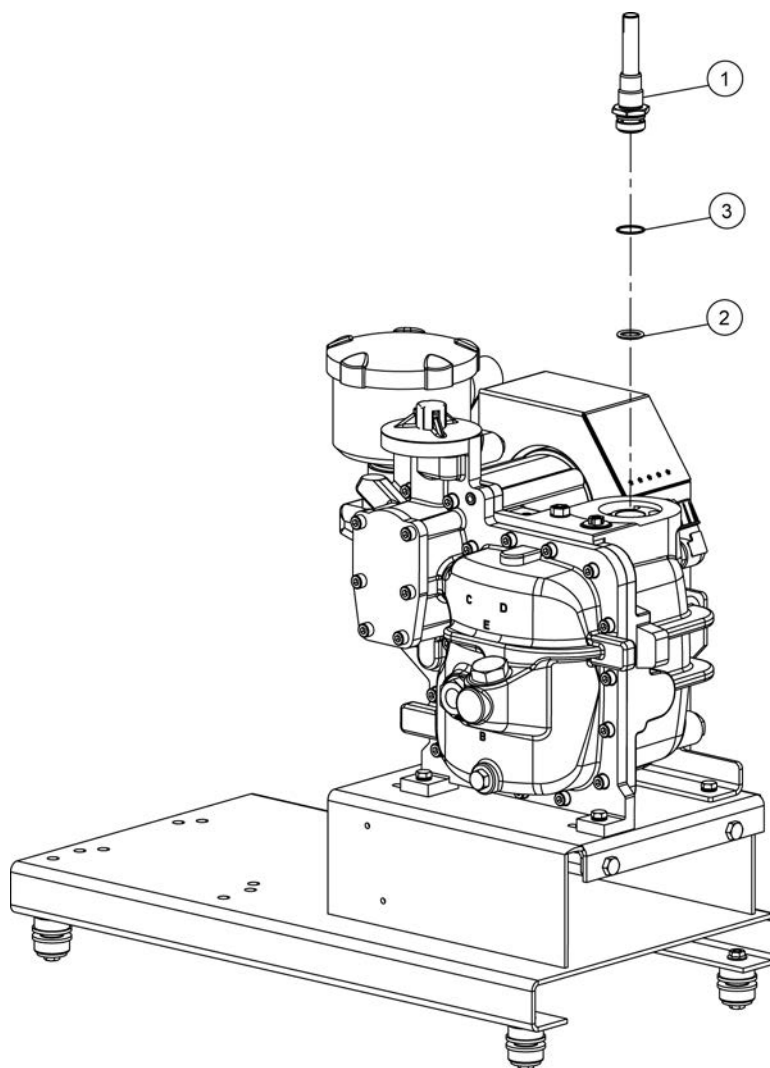
(Dwg. 22426936AA12)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22471817	BAFFLE, INLET VALVE	1
2	24820409	VALVE, INLET (N.C.)	1
3	42684795	GASKET, INLET VALVE	2
4	89243778	AIR FILTER (ELEMENT 88171913)	1
5	89246078	SEAL, SPACER	1
6	95235156	CLAMP, HOSE WORM DRIVE STAINLESS STEEL	1
7	96704671	WASHER, PRODUCT GRADE A M8	4
8	96708060	SCREW, SOCKET HEAD M8 x 25.0 LONG	4

# AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Separator Stem into Airend



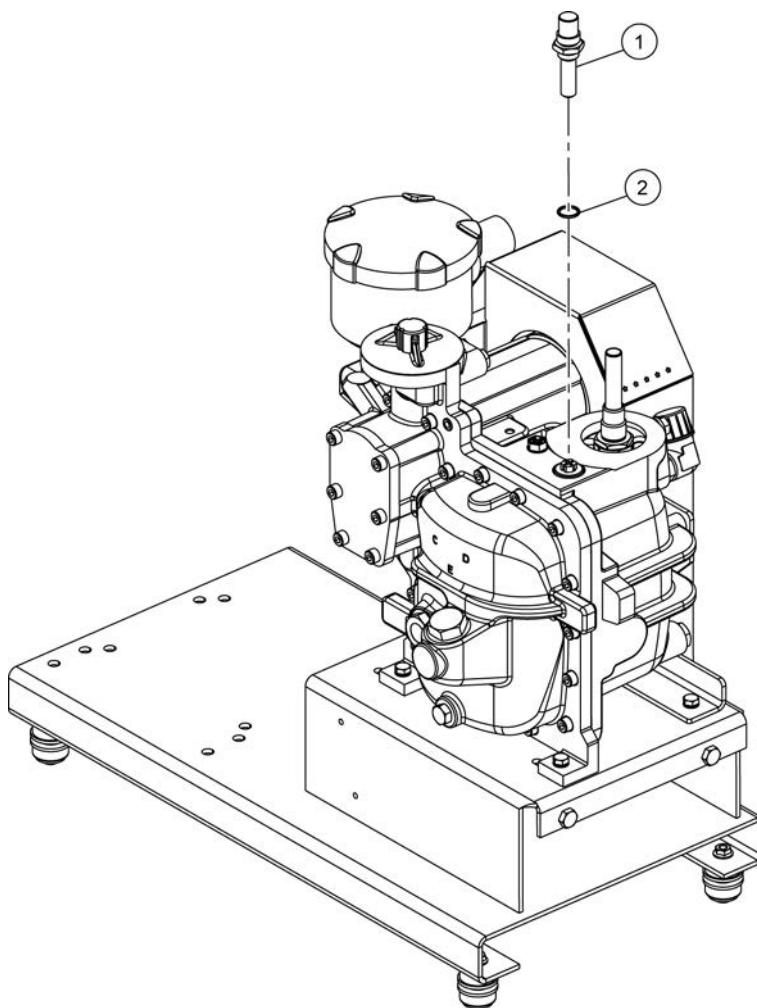
(Dwg. 22426936AA13)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22232813	ASSEMBLY, SEPARATOR STEM CE55 15 hp	1
2	95022133	O-RING, STANDARD -210 0.750 INCH ID x 0.125 INCH WIDTH	1
3	95025466	O-RING, STANDARD -021 0.926 INCH ID x 0.062 INCH WIDTH	1

# AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

**Assemble High Air Temperature Switch into Airend**



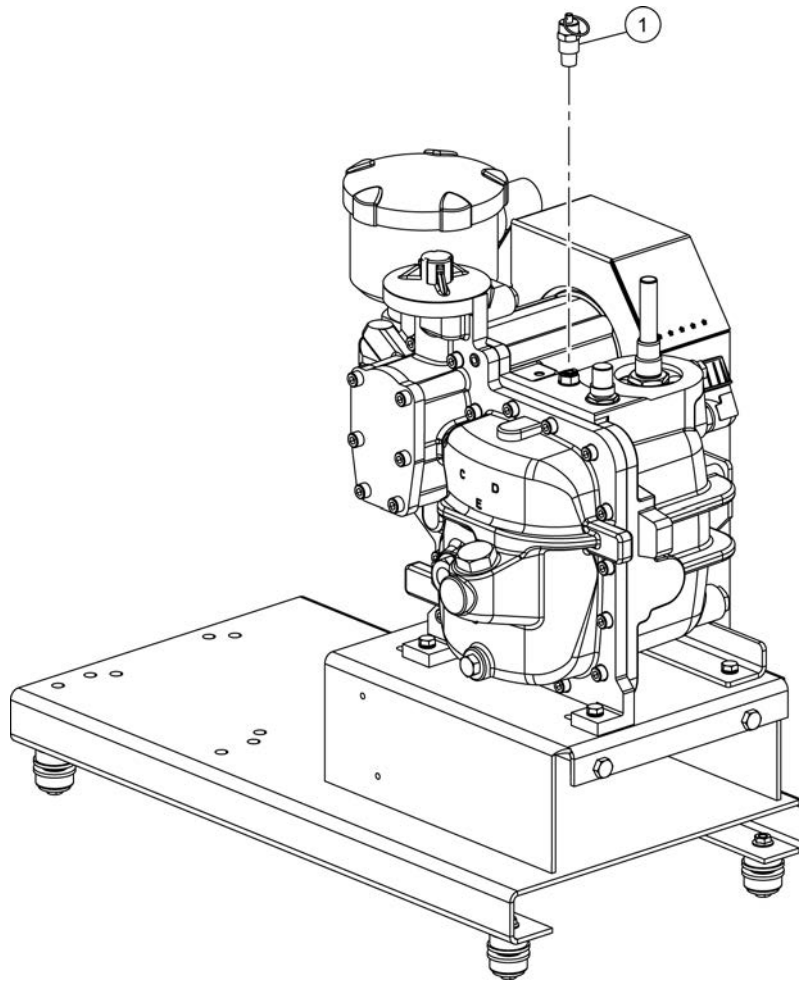
(Dwg. 22426936AA14)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	23681604	SWITCH, HIGH AIR TEMPERATURE. (228° F)	1
2	39404165	O-RING, ID 0.644 INCH WIDTH 0.087 INCH	1

## AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Airend Relief Valve



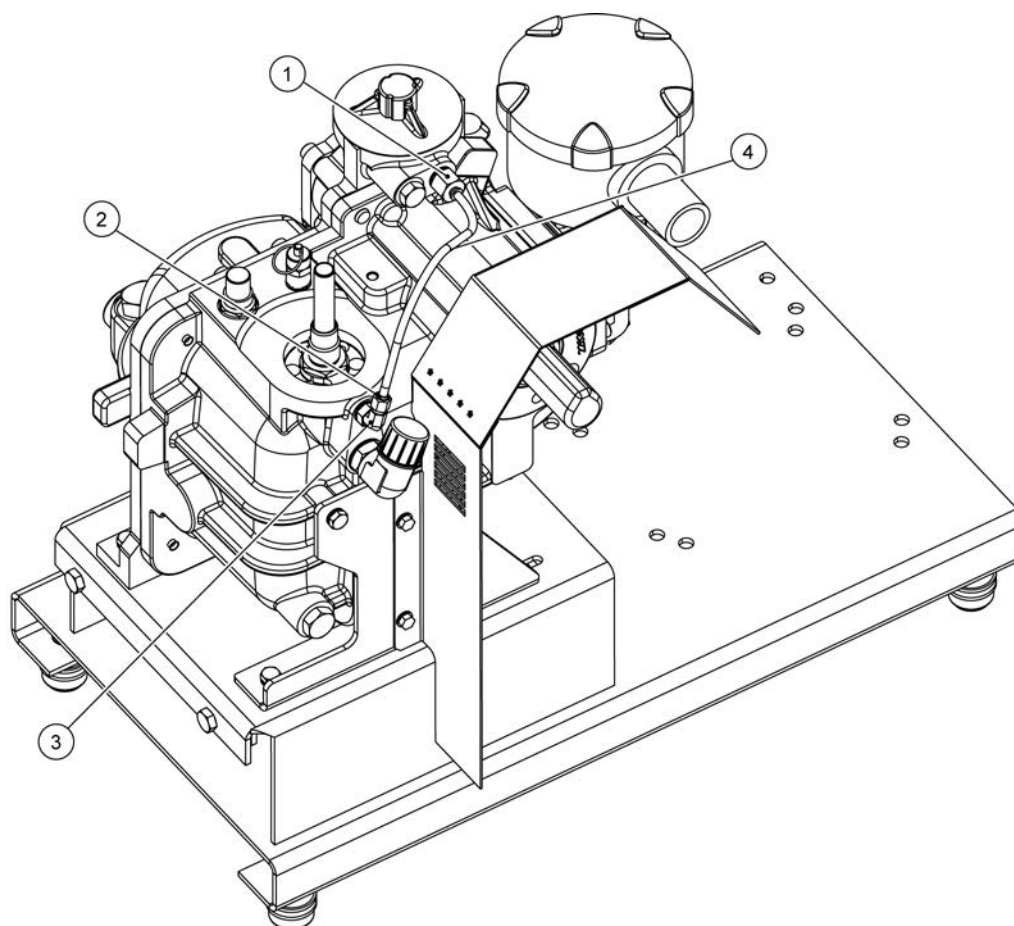
(Dwg. 22426936AA15)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	22378665	VALVE, PRESSURE SAFETY, 60 Hz (ASME)	1
	22401590	VALVE, PRESSURE SAFETY, 50 HZ (PED)	1
	22431761	VALVE, PRESSURE SAFETY, 8.8 BAR (GB)	1
	22431779	VALVE, PRESSURE SAFETY, 11 BAR (GB)	1
	22431787	VALVE, PRESSURE SAFETY, 16 BAR (GB)	1
	22493902	VALVE, PRESSURE SAFETY, 11 BAR (ASME)	1
	22550552	VALVE, PRESSURE SAFETY, 13.8 BAR (ASME)	1

## AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Airend Scavenge Tube



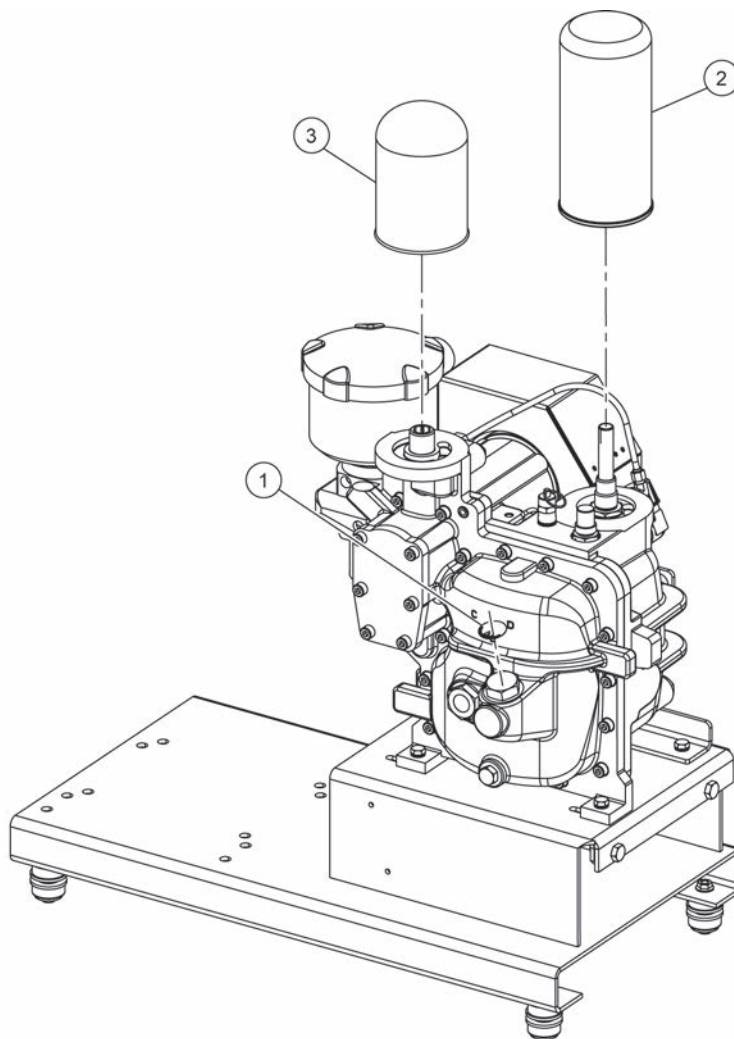
(Dwg. 22426936AA16)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	22380216	VALVE, CHECK (0.039 INCH ORIF) 0.25 BSPT x 6 mm TUBE	1
2	22770069	INSERT, 6 mm PLASTIC TUBE	1
3	92067933	ELBOW, MALE 6 mm TUBE x 0.25 BSPT	1
4	92490358	TUBE, NYLON 6 mm O.D. (BLUE)	1 FT

## AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

**Assemble Coolant Filter and Separator Element. Install Coolant Fill Decal.**



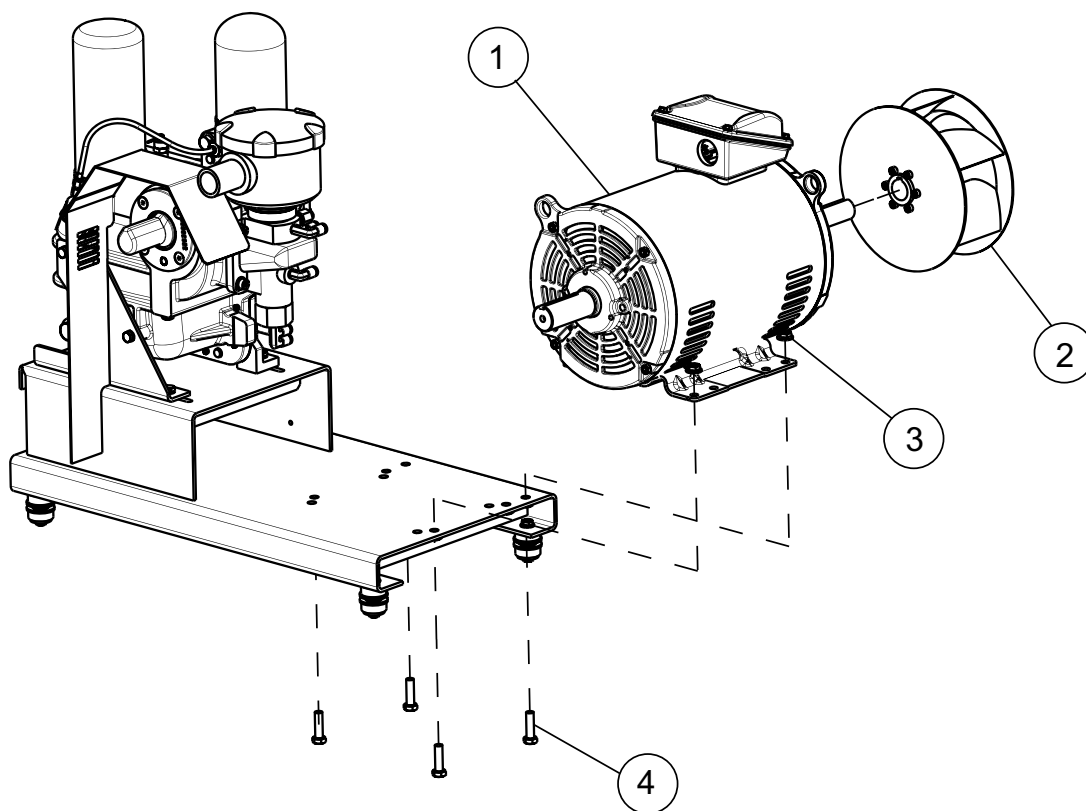
(Dwg. 22426936AA17)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	24071771	DECAL, ULTRA EL	1
	24071755	DECAL, ULTRA FG	1
	22870109	DECAL, ULTRA PLUS	1
	23175243	DECAL, ULTRA	1
2	24121212	ELEMENT, SEPARATOR	1
3	39329602	ELEMENT, COOLANT FILTER	1

# AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Motor to Isolation Base



(Dwg. 22426936AA18)

### PARTS LIST

Item	Part No (IE2).	Part No (IE3).	Description	Qty.
1	22368203	47555994001	MOTOR, 15 hp 200V 60 HZ FV ODP	1
	22479042	N/A	MOTOR, 15 hp 200V 60 HZ FV/SD TEFC	1
	22368211	47555993001	MOTOR, 15 hp 230/460V 60 HZ FV ODP	1
	22374862	N/A	MOTOR, 15 hp 230/460V 60 HZ FV/SD TEFC	1
	22483473	47555996001	MOTOR, 15 hp 380V 60 HZ FV ODP	1
	22416960	-	MOTOR, 15 hp 380V 60 HZ FV/SD TEFC	1
	22368229	47555995001	MOTOR, 15 hp 575V 60 HZ ODP	1
	22479059	N/A	MOTOR, 15 hp 575V 60 HZ FV/SD TEFC	1
	23871809	-	MOTOR, 11 kW 220V 50 HZ FV/SD IP55 - IE2	1
	23886385	-	MOTOR, 11 kW 380V 50 HZ S/D IP55 - IE2	1
	23871783	-	MOTOR, 11 kW 400V 50 HZ FV/SD IP55 - IE2	1
	22368237	47555990001	MOTOR, 10 hp 200V 60 HZ FV ODP	1
	22479067	N/A	MOTOR, 10 hp 200V 60 HZ FV/SD TEFC	1
	22368245	47555989001	MOTOR, 10 hp 230/460V 60 HZ FV ODP	1
	22368526	N/A	MOTOR, 10 hp 230/460V 60 HZ FV/SD TEFC	1

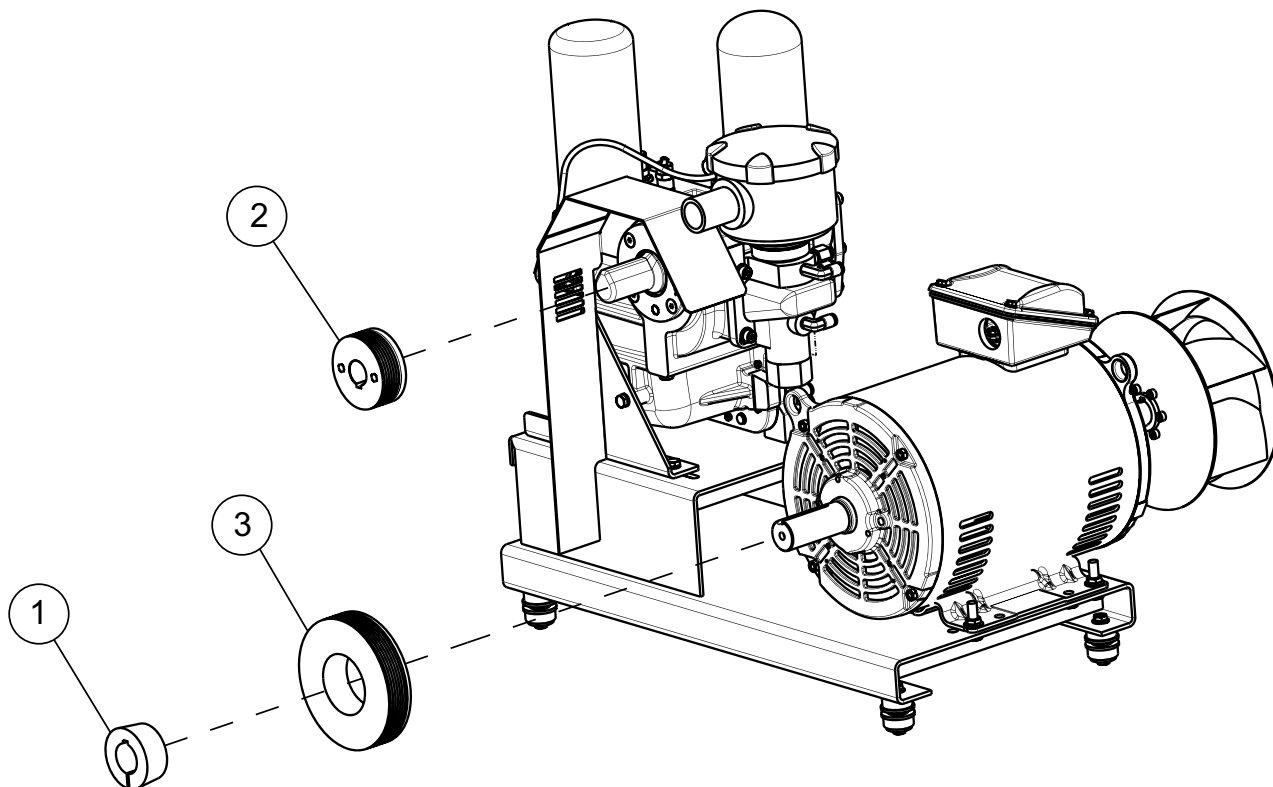
## AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### PARTS LIST CONTINUED

Item	Part No (IE2).	Part No (IE3).	Description	Qty.
1	22483481	47555992001	MOTOR, 10 hp 380V 60 HZ FV ODP	1
	22416978	-	MOTOR, 10 hp 380V 60 HZ FV/SD TEFC	1
	22368252	47555991001	MOTOR, 10 hp 575V 60 HZ FV ODP	1
	22479075	N/A	MOTOR, 10 hp 575V 60 HZ FV/SD TEFC	1
	23871817	-	MOTOR, 7.5 kW 220V 50 HZ FV/SD IP55 - IE2	1
	23886377	-	MOTOR, 7.5 kW 380V 50 HZ FV/SD IP55 - IE2	1
	23871791	-	MOTOR, 7.5 kW 400V 50 HZ FV/SD IP55 - IE2	1
	22368260	47555986001	MOTOR, 7.5 hp 200V 60 HZ FV ODP	1
	22479083	N/A	MOTOR, 7.5 hp 200V 60 HZ FV/SD TEFC	1
	22368278	47555985001	MOTOR, 7.5 hp 230/460V 60 HZ FV ODP	1
	22374870	N/A	MOTOR, 7.5 hp 230/460V 60 HZ FV/SD TEFC	1
	22483499	47555988001	MOTOR, 7.5 hp 380V 60 HZ FV ODP	1
	22416986	-	MOTOR, 7.5 hp 380V 60 HZ FV/SD TEFC	1
	22368286	47555987001	MOTOR, 7.5 hp 575V 60 HZ FV ODP	1
	22479091	N/A	MOTOR, 7.5 hp 575V 60 HZ FV/SD TEFC	1
	22399182	-	MOTOR, 7.5 hp 230/1/60 TEFC	1
	23871825	-	MOTOR, 5.5 kW 220/3/50 FV/SD IP55 - IE2	1
	23886369	-	MOTOR, 5.5 kW 380V 50 HZ S/D IP55 - IE2	1
	23871775	-	MOTOR, 5.5 kW 400V 50 HZ FV/SD IP55 - IE2	1
	22368294	47555982001	MOTOR, 5 hp 200V 60 HZ FV ODP	1
	22479109	N/A	MOTOR, 5 hp 200V 60 HZ FV/SD TEFC	1
	22368302	47555981001	MOTOR, 5 hp 230/460V 60 HZ FV ODP	1
	22368534	N/A	MOTOR, 5 hp 230/460V 60 HZ FV/SD TEFC	1
	22483507	47555984001	MOTOR, 5 hp 380V 60 HZ FV ODP	1
	22416994	-	MOTOR, 5 hp 380V 60 HZ FV/SD TEFC	1
	22368310	47555983001	MOTOR, 5 hp 575V 60 HZ FV ODP	1
	22479117	N/A	MOTOR, 5 hp 575V 60 HZ FV/SD TEFC	1
	22474175	-	MOTOR, 5 hp 200/1/60 ODP	1
	22479513	-	MOTOR, 5 hp 200/1/60 TEFC	1
	22399166	-	MOTOR, 5HP 230/1/60 ODP	1
	22399174	-	MOTOR, 5 hp 230/1/60 TEFC	1
	23871833	-	MOTOR, 4 kW 220/3/50 FV/SD IP55 - IE2	1
	23886351	-	MOTOR, 4 kW 380V 50HZ FV/SD IP55 - IE2	1
23871767	-	MOTOR, 4 kW 400V 50HZ FV/SD IP55 - IE2	1	
2	23454390	-	BLOWER, 5/7.5 hp 60 Hz	1
	23454382	-	BLOWER, 10 hp 60 Hz, 4/5.5 kW 50 Hz	1
	23454374	-	BLOWER, 15 hp 60 Hz	1
	23454408	-	BLOWER, 7.5/11 kW 50 Hz	1
3	96704846	-	NUT, HEX FLANGE LOCK SERRATED M10-1.50	4
4	96705983	-	SCREW, HEX HEAD M10-1.50 x 35.0 LONG	4

## AIREND/MOTOR (UP-SERIES) ASSEMBLY DRAWING

### Assemble Motor and Airend Drive Sheaves



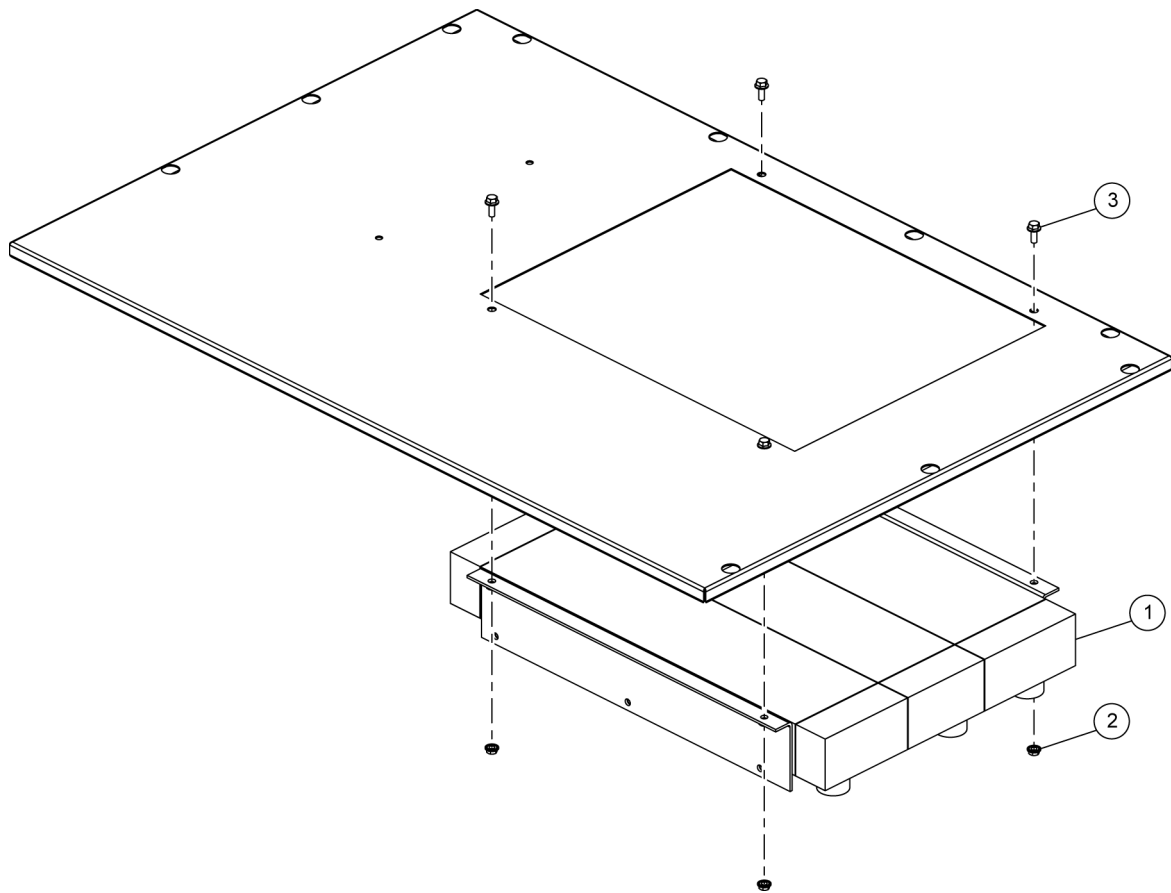
(Dwg. 22426936AA19)

#### PARTS LIST

	NOT ILLUSTRATED	1	2	3
Group	Belt	Bushing	Sheave, Airend side	Sheave, Motor Side
15 hp 125 PSIG	89306302	22375125	22375265	22386734
15 hp 150 PSIG	54400726	22375125	22375273	22386734
15 hp 210 PSIG	22499552	22375125	22375281	22386742
10 hp 125 PSIG	54420708	22375125	22375299	22386742
10 hp 150 PSIG	89306302	22375125	22375307	22386742
10 hp 210 PSIG	89296586	22375125	22375315	22386742
7.5 hp 125 PSIG	89306294	22386908	22386544	22386775
7.5 hp 150 PSIG	89296560	22386908	22408801	22408769
7.5 hp 210 PSIG	89296578	22386908	22408819	22408769
5 hp 125 PSIG	89296560	22386908	22386577	22386775
5 hp 150 PSIG	89296560	22386908	22386585	22386783
5 hp 210 PSIG	89296578	22386908	22386593	22386783
11 kW 8 BAR	89296586	22386882	22409304	22386759
11 kW 10 BAR	89296586	22386882	22386676	22386759
11 kW 14.5 BAR	54400726	22386882	22386684	22386734
7.5 kW 8 BAR	54400726	22386882	22409296	22386734
7.5 kW 10 BAR	22499552	22386882	22386700	22386742
7.5 kW 14.5 BAR	89306302	22386882	22386718	22386742
5.5 kW 8 BAR	54438106	22386890	22386635	22408744
5.5 kW 10 BAR	54438106	22386890	22386643	22408744
5.5 kW 14.5 BAR	89296560	22386890	22408801	22408769
4 kW 8 BAR	89296552	22386890	22386635	23678584
4 kW 10 BAR	89296552	22386890	22386643	22386783
4 kW 14.5 BAR	89296560	22386890	22386650	22386783

**COOLING & CONTROL SYSTEM (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Cooler to Main Enclosure Top Panel**



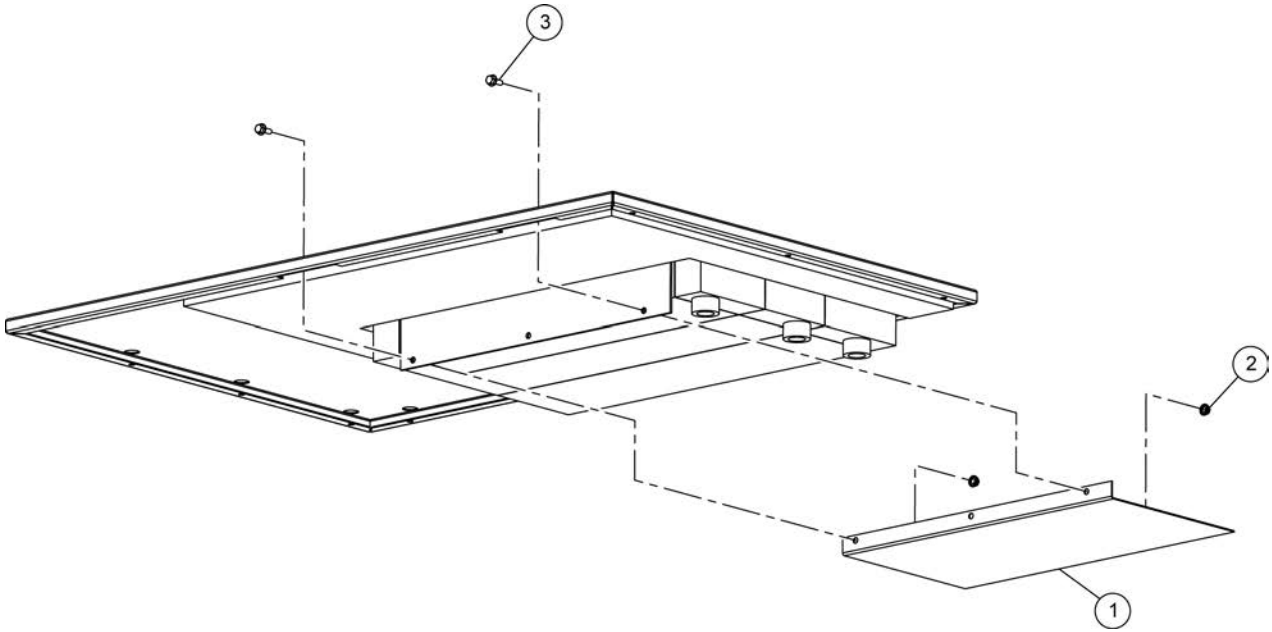
(Dwg. 22427546U2)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	22357941	ASSEMBLY, COOLER 15 hp	1
2	96737564	NUT, HEX FLANGE LOCK SERRATED M6-1	4
3	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	4

**COOLING & CONTROL SYSTEM (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Cooler Side Flange Mounting Screws**



(Dwg. 22427546U3)

**PARTS LIST**

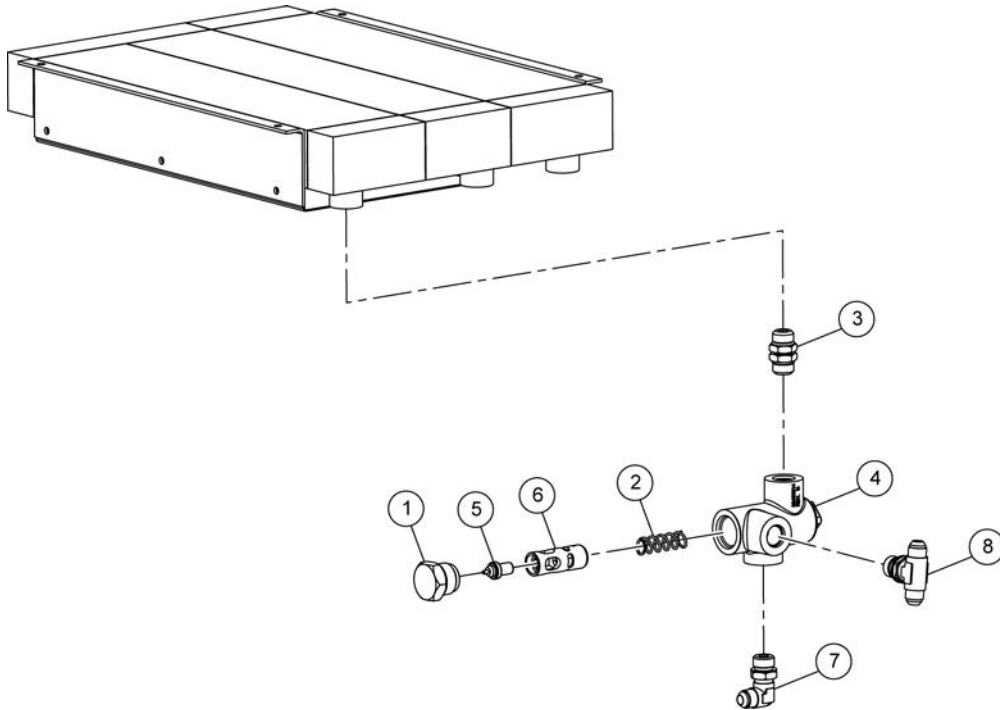
Item	Part No.	Description	Qty.
1	22481030	BAFFLE, COOLER (SEE NOTE BELOW)	1
2	96737564	NUT, HEX FLANGE LOCK SERRATED M6-1	2
3	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	2

**NOTE:**

**COOLER BAFFLE IS USED ON 7.5 HP AND 10 HP 210 PSIG UNITS ONLY.**

# COOLING & CONTROL SYSTEM (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Thermal Valve Block and Fittings to Cooler



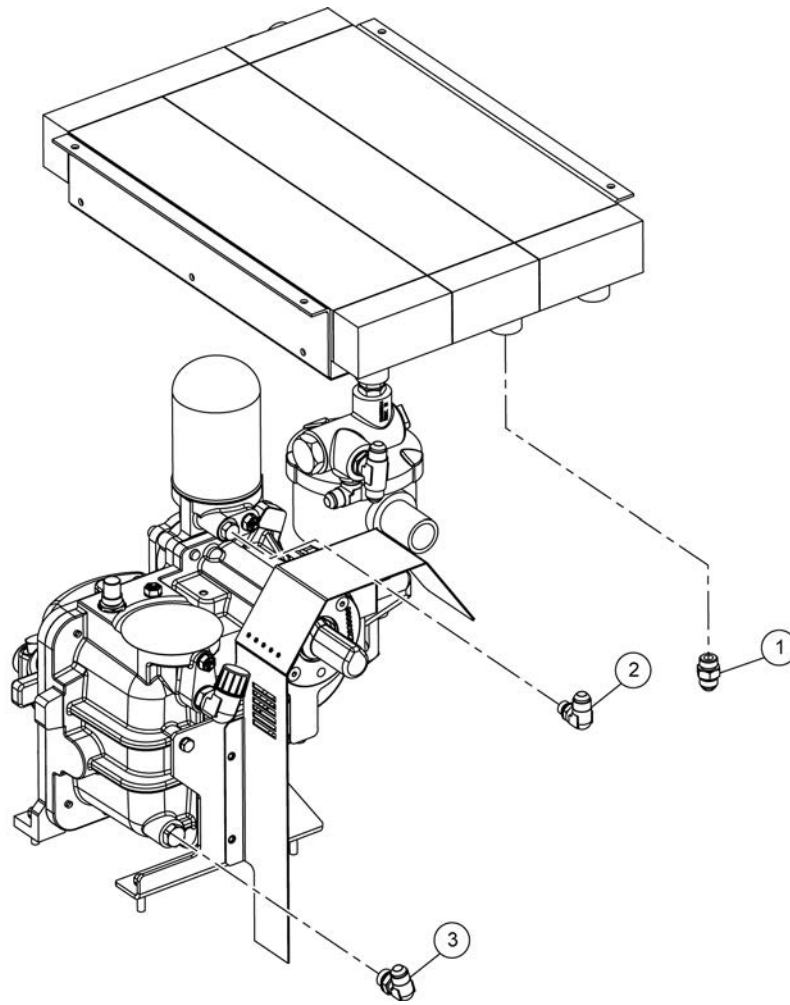
(Dwg. 22427546U4)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22186688	PLUG, THERMAL VALVE (1.3125 INCH SAE)	1
2	22186696	SPRING, THERMAL VALVE	1
3	22305965	UNION, 0.875-14 INCH SAE STR. THD. (W/VITON O-RINGS)	1
4	22456214	MANIFOLD, THERMAL VALVE (MACHINED)	1
5	22463368	ACTUATOR, THERMAL 181°F	1
6	22856991	CAGE, THERMAL VALVE	1
7	95052379	ELBOW, 0.50 TUBE x 0.875 INCH SAE	1
8	95647889	TEE, BRANCH 0.50 TUBE x 0.88 INCH SAE	1

**COOLING & CONTROL SYSTEM (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Oil Line Fittings to Airend and Cooler**



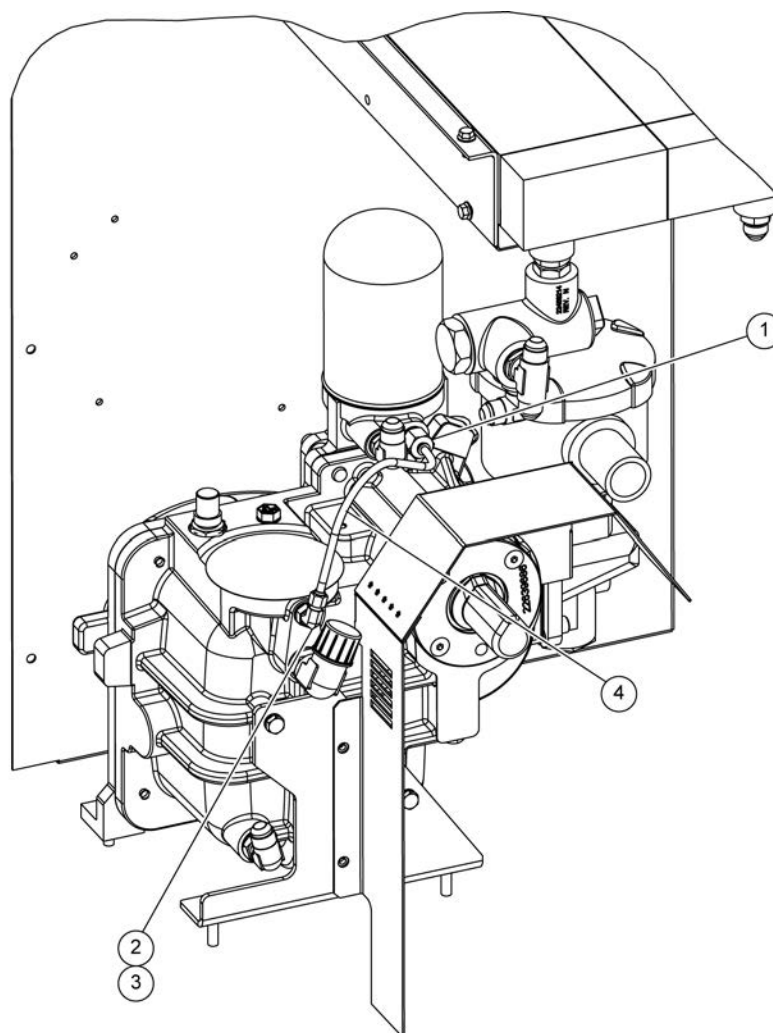
(Dwg. 22427546U5)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	95938122	CONNECTOR, 0.50 TUBE x 0.75 INCH SAE	1
2	95988358	ELBOW, 0.50 TUBE x 0.56 INCH SAE	1
3	95992822	ELBOW, 0.50 TUBE x 0.75 INCH SAE	1

**COOLING & CONTROL SYSTEM (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Separator Element to Oil Filter Tube**



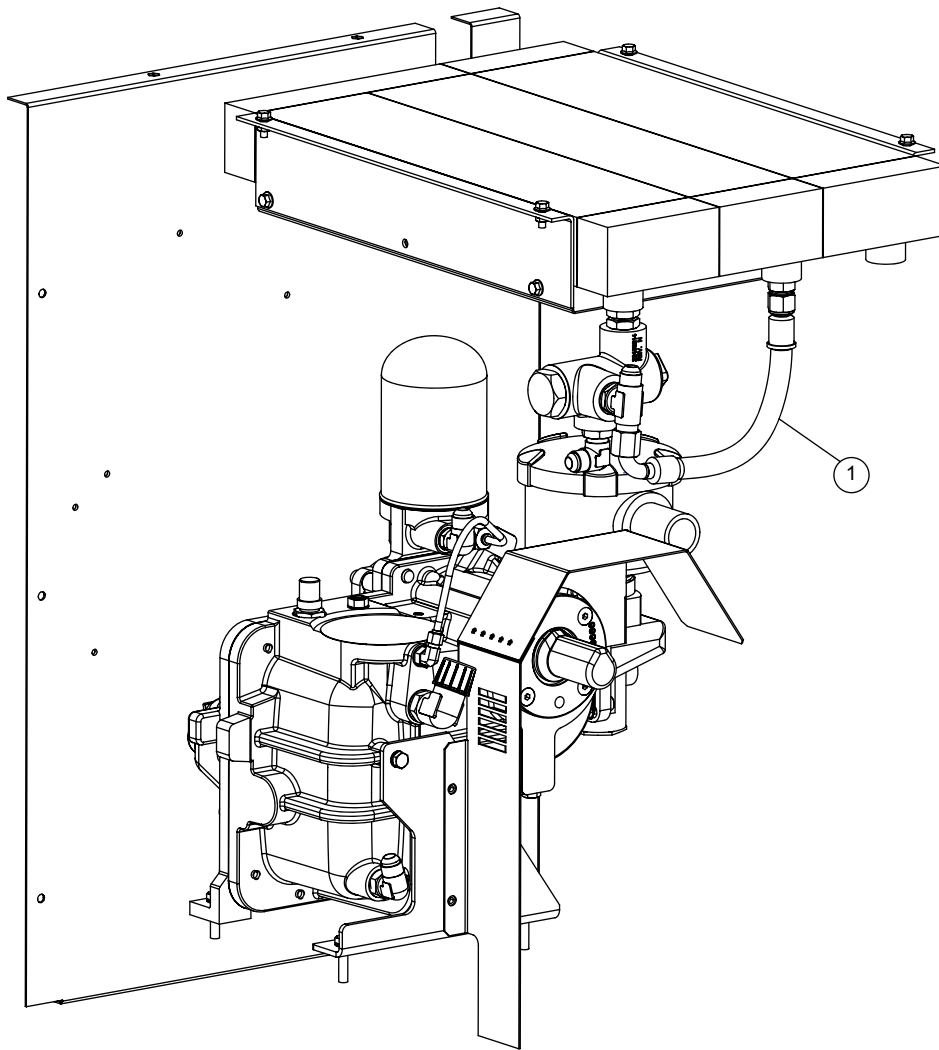
(Dwg. 22427546U6)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	22380216	VALVE, CHECK (0.039 ORIF) 0.25 BSPT x 6 mm TUBE	1
2	22770069	INSERT, 6 mm PLASTIC TUBE	1
3	92067933	ELBOW, MALE METRU-LOK 6 mm TUBE x 0.25 BSPT	1
4	92490358	TUBE, NYLON 6 mm O.D. (BLUE)	1 FT

**COOLING & CONTROL SYSTEM (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Oil Return Hose Assembly (Oil Cooler out to Thermal Valve Block Tee)**



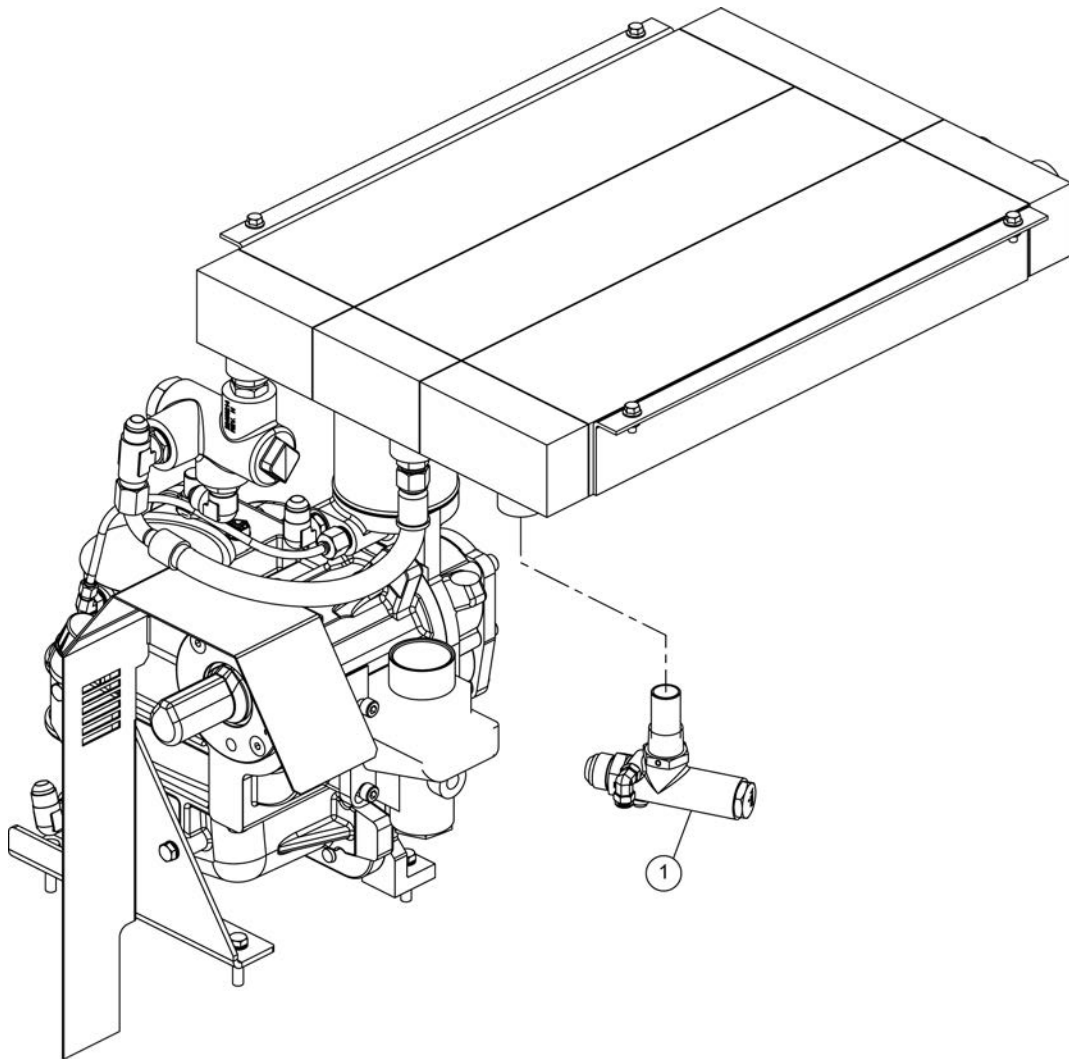
(Dwg. 22427546U7)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	48662290	HOSE, HYD. STR x 90° -8 x 15 INCH LONG, RUBBER	1
	24279135	HOSE, HYD. STR x 90° -8 x 15 INCH LONG, PTFE	1

**COOLING & CONTROL SYSTEM (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Minimum Pressure Check Valve Assembly to Cooler**



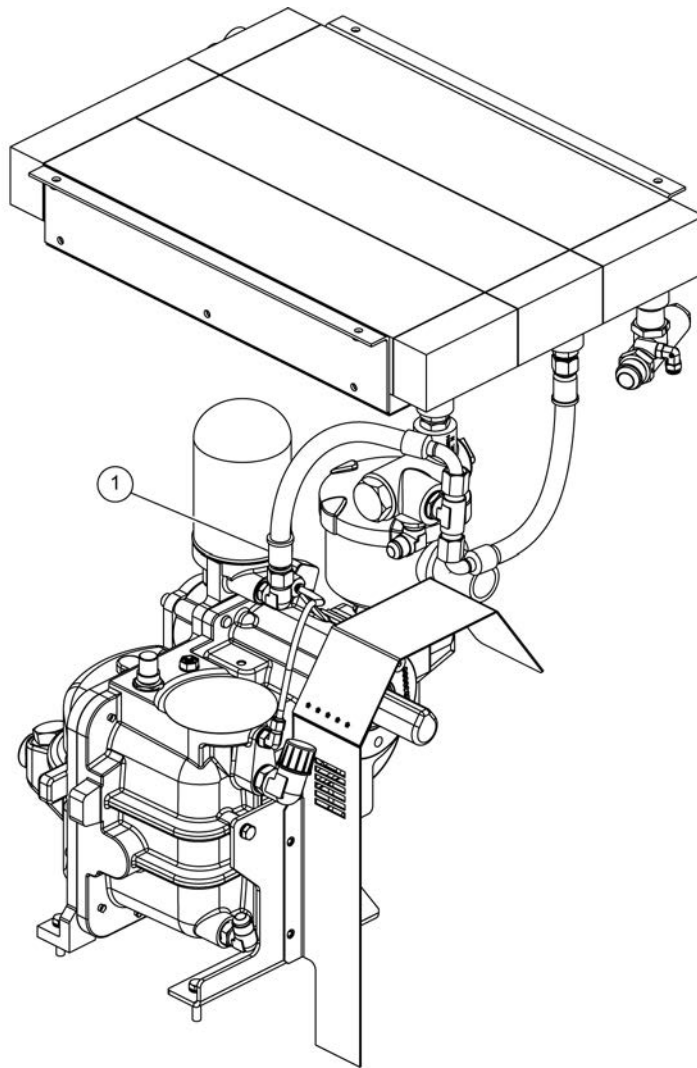
(Dwg. 22427546U8)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	23410806	VALVE, CHECK MINIMUM PRESSURE	1

**COOLING & CONTROL SYSTEM (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Oil Return Hose Assembly (Thermal Valve Block Tee to Aircend)**



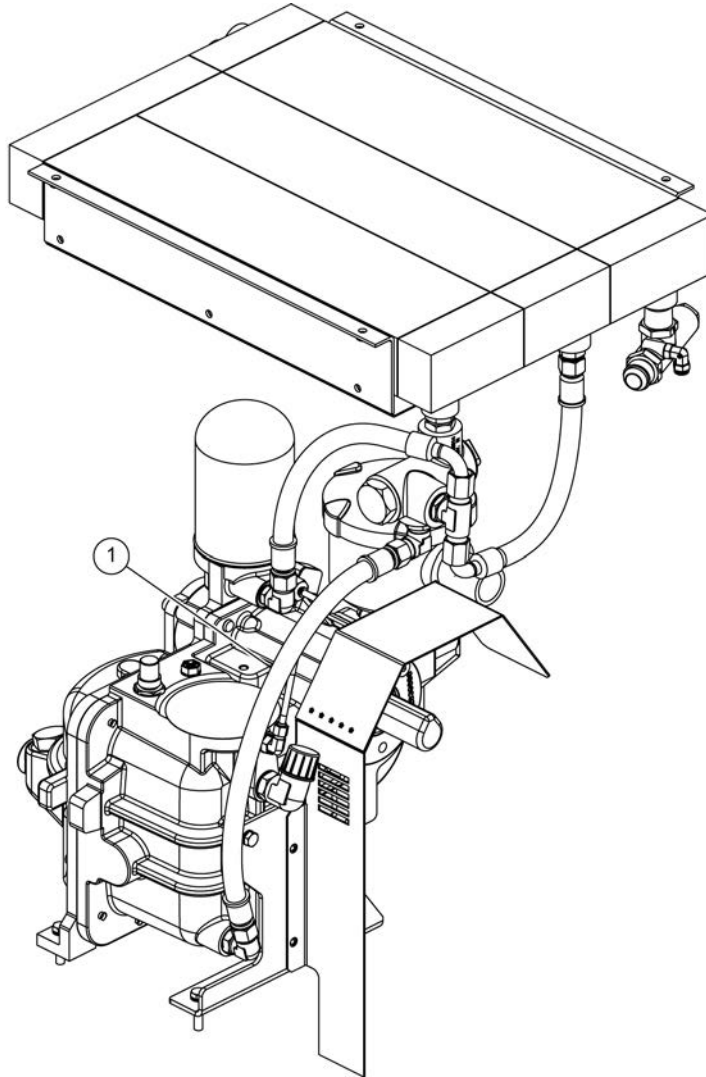
(Dwg. 22427546U9)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	48662290	HOSE, HYD. STR x 90° -8 x 15 INCH LONG, RUBBER	1
	24279135	HOSE, HYD. STR x 90° -8 x 15 INCH LONG, PTFE	1

**COOLING & CONTROL SYSTEM (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Aired to Thermal Valve Block Hose Assembly**



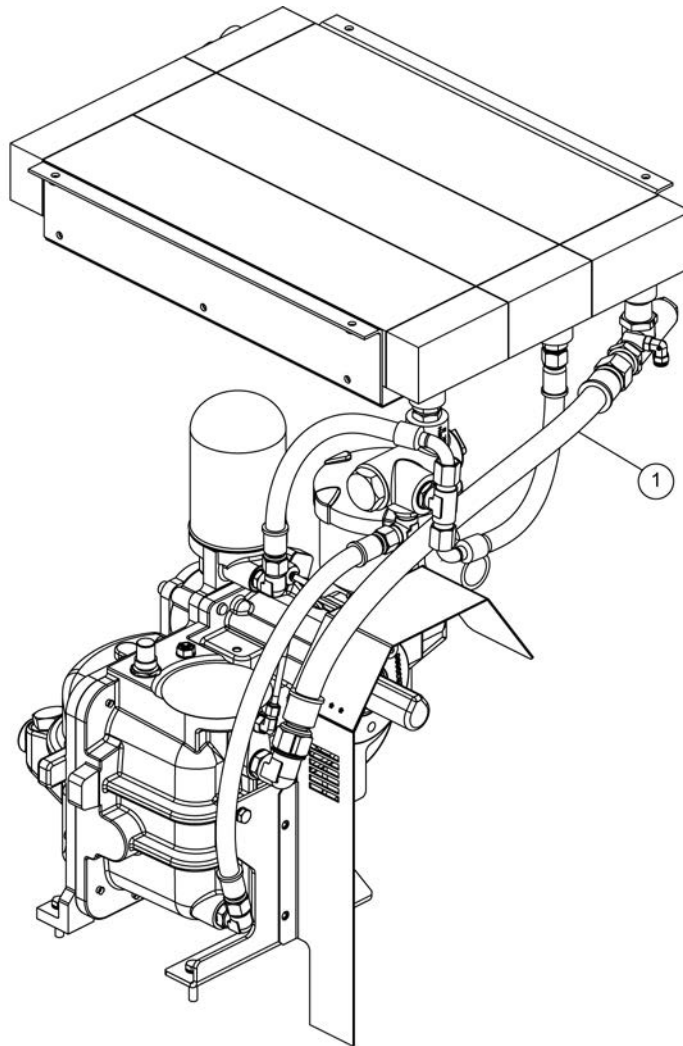
(Dwg. 22427546U10)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	48662282	HOSE, HYD. STR x 90° -8 x 20 INCH LONG, RUBBER	1
	24279127	HOSE, HYD. STR x 90° -8 x 20 INCH LONG, WITH PTFE	1

**COOLING & CONTROL SYSTEM (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Airend Air Discharge to Minimum Pressure Check Valve Hose Assembly**



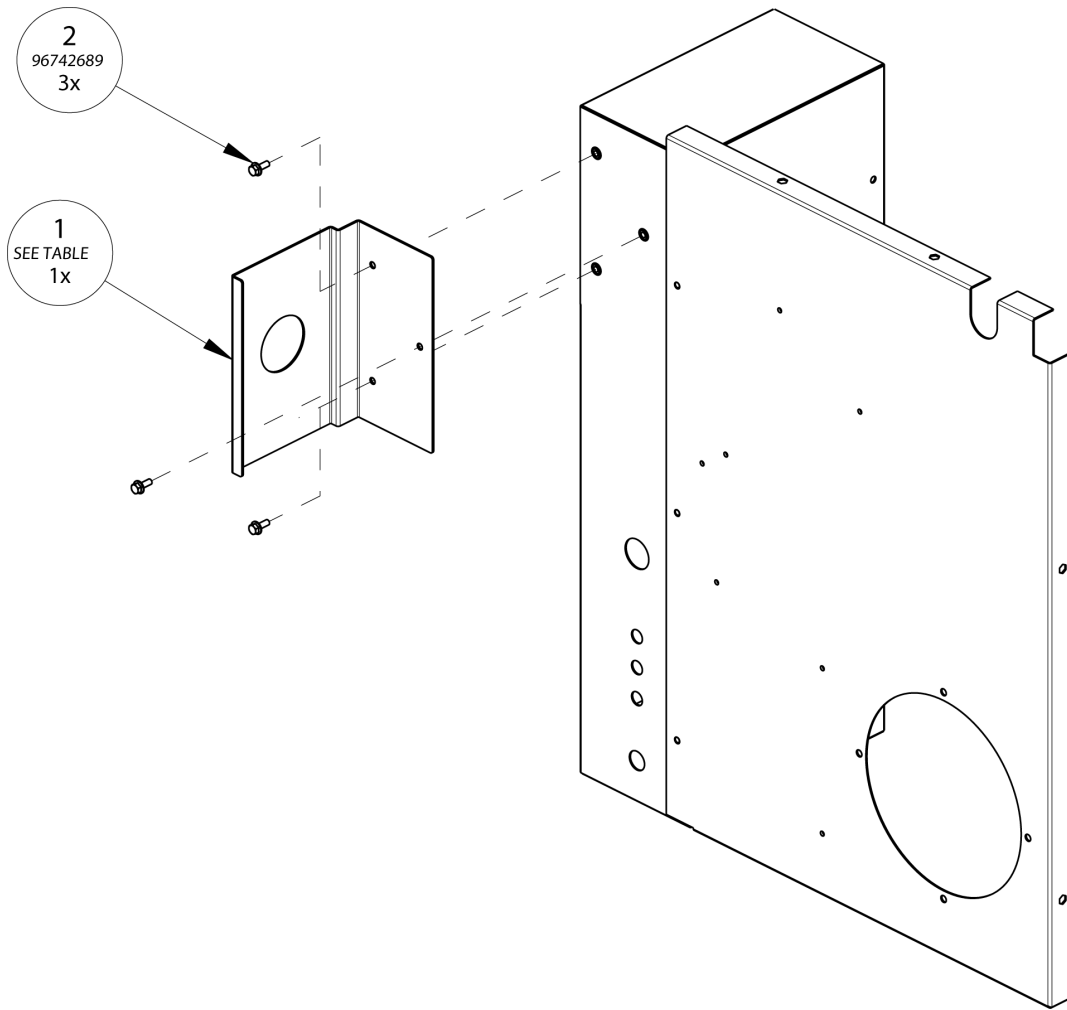
(Dwg. 22427546U11)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	85560274	HOSE, HYD. STR x STR-12 x 22 INCH LONG	1

# STARTER PANEL (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Gauge Panel to Starter Box



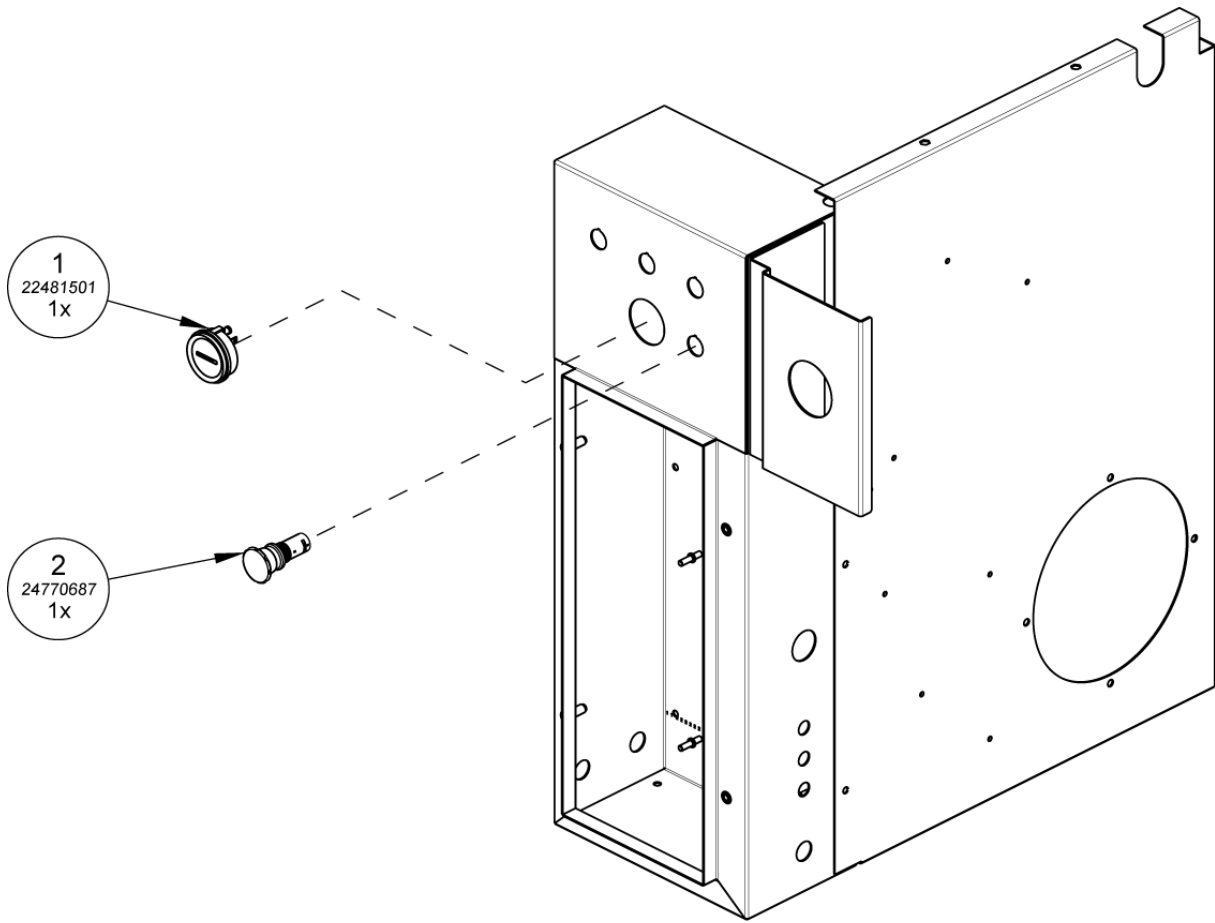
(Dwg. 22429013W2)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22529234	GAUGE PANEL (0-400 PSIG NON-DRYER)	1
	22529259	GAUGE PANEL (0-400 PSIG W/DRYER)	1
	22529234	GAUGE PANEL (0-300 PSIG NON-DRYER)	1
	22529259	GAUGE PANEL (0-300 PSIG W/DRYER)	1
2	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	3

# STARTER PANEL (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Hour Meter and E-stop Button into Starter Panel



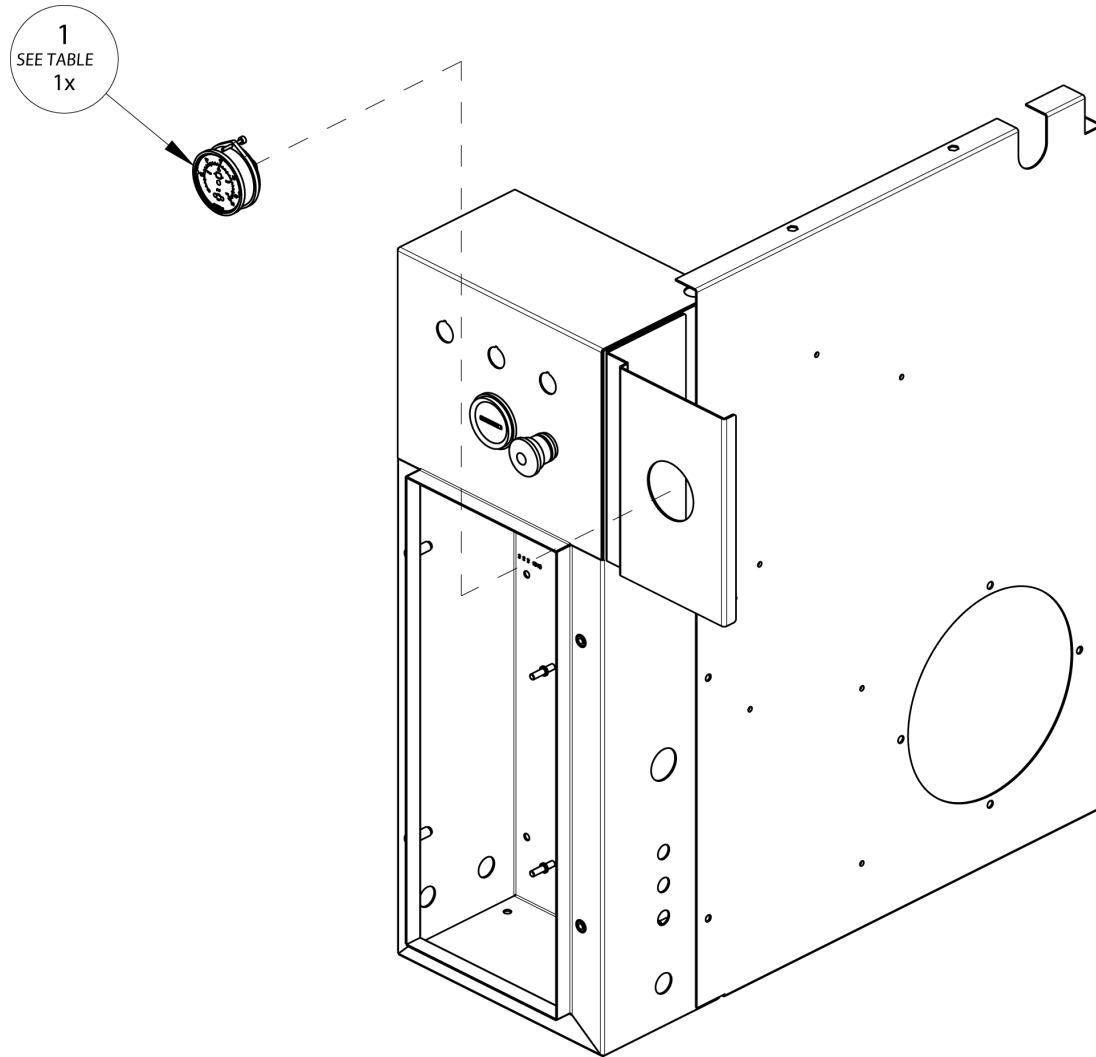
(Dwg. 22429013W3)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22481501	METER, HOUR	1
2	24770687	STOP, EMERGENCY W/ 1-NC & 1-NO	1

# STARTER PANEL (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Pressure Gauge to Gauge Panel



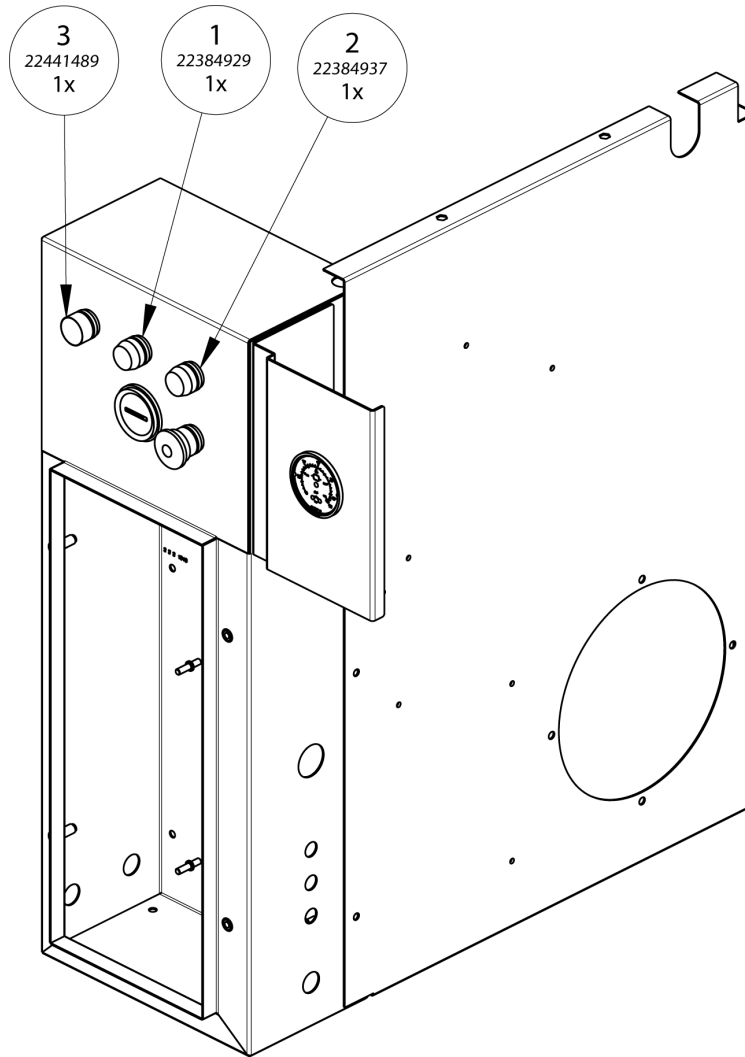
(Dwg. 22429013W4)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22487110	GAUGE PANEL (0-400 PSIG NON-DRYER)	1
	22487110	GAUGE PANEL (0-400 PSIG W/DRYER)	1
	54772058	GAUGE PANEL (0-300 PSIG NON-DRYER)	1
	54772058	GAUGE PANEL (0-300 PSIG W/DRYER)	1

# STARTER PANEL (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Push Button Reset Switch and Indicator Lights



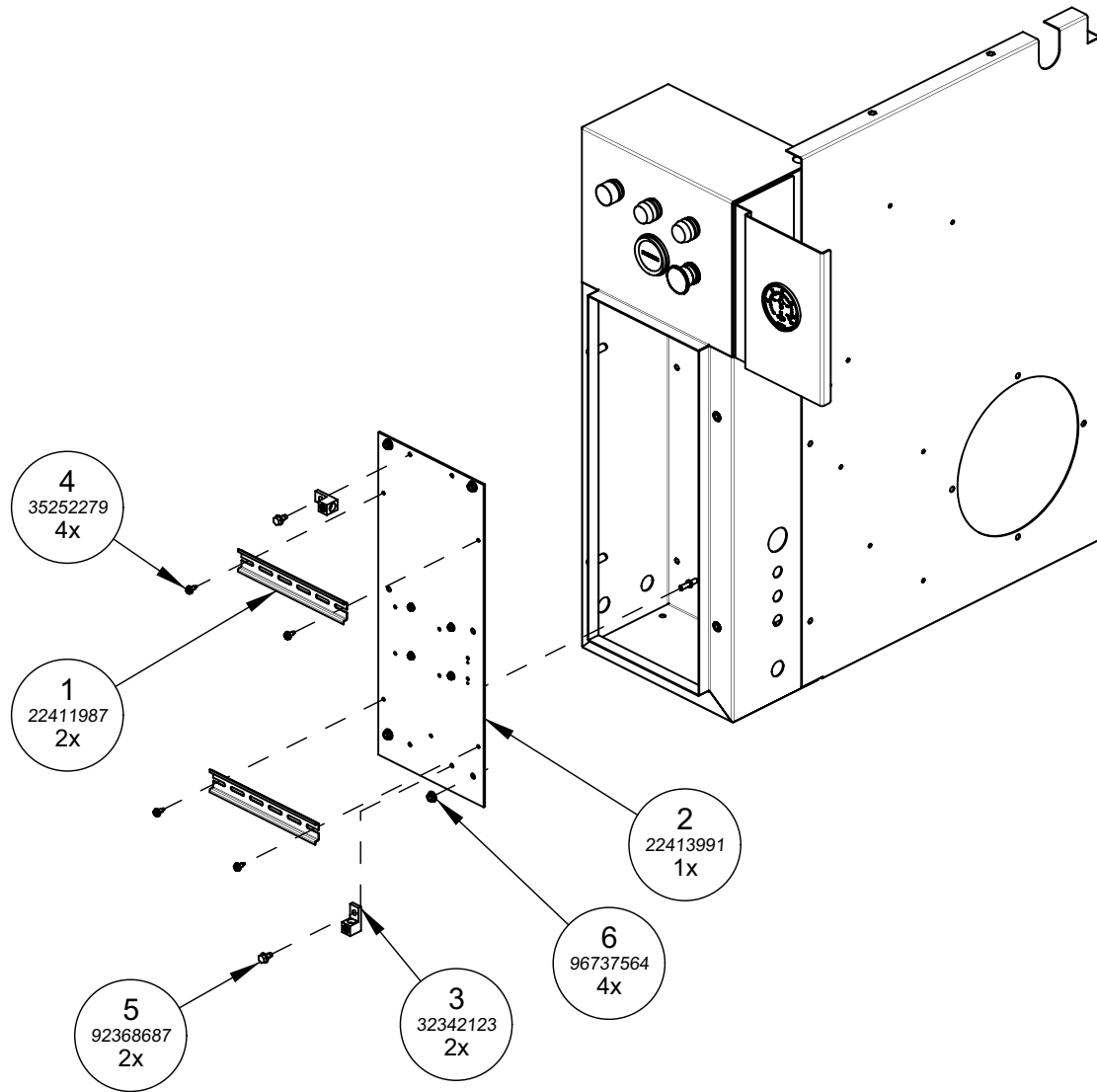
(Dwg. 22429013W5)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22384929	ASSEMBLY, GREEN LIGHT INDICATOR	1
2	22384937	ASSEMBLY, YELLOW LIGHT INDICATOR	1
3	22441489	ASSEMBLY, GREEN PUSH BUTTON RESET	1

# STARTER PANEL (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Starter Components Mounting Panel



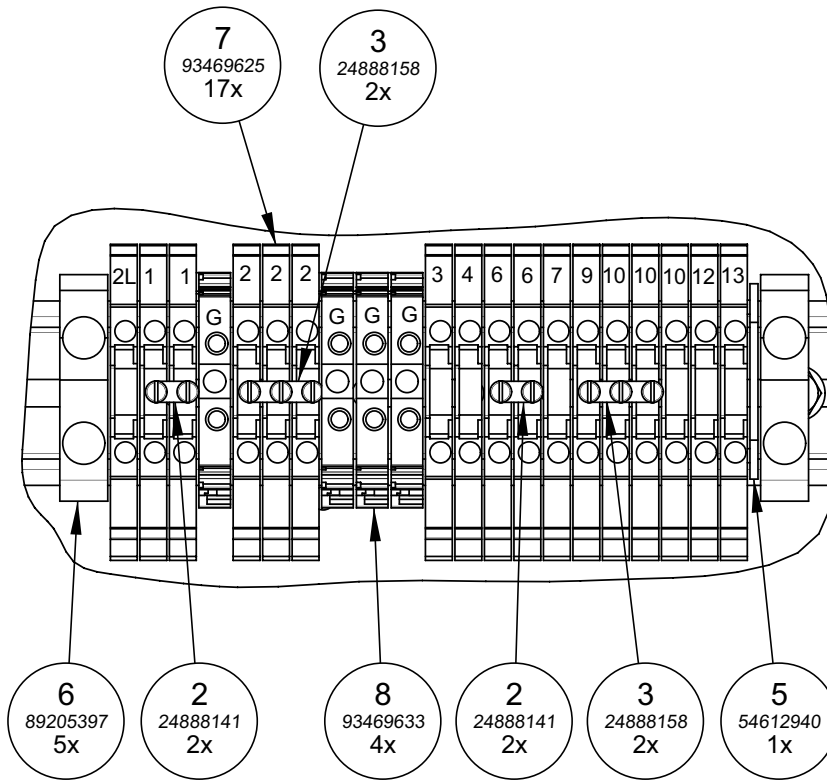
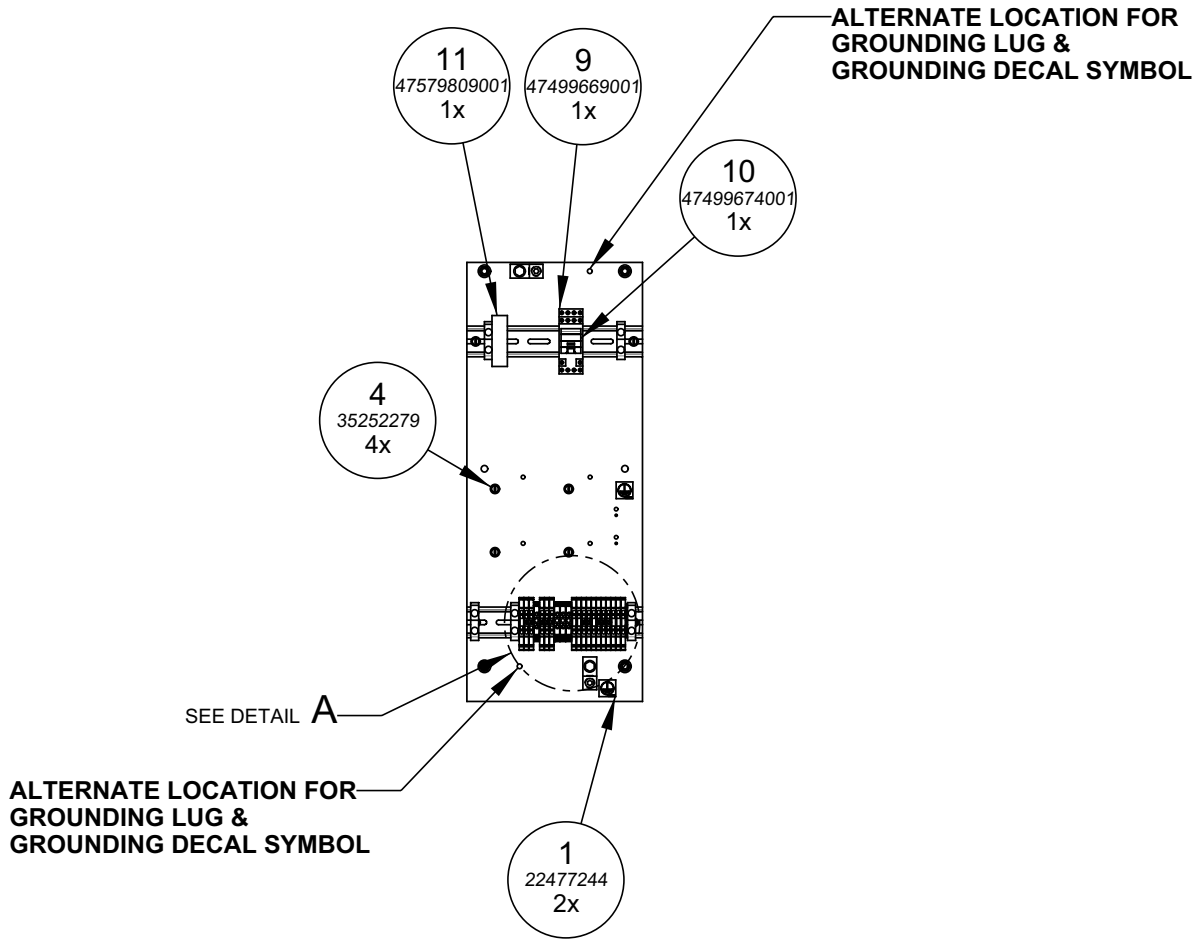
(Dwg. 22429013W6)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22411987	RAIL, DIN, 35 WIDE x 200 LONG	2
2	22413991	PLATE, STARTER COMP. MTG. (UP-SERIES)	1
3	32342123	LUG, GROUNDING	2
4	35252279	SCREW, SLOTTED WASHER HEAD TAPPING #10 x 0.50 LONG ZINC PLATED	4
5	92368687	TAPTITE SCREW M6-1 x 12 LONG	2
6	96737564	NUT, HEX FLANGE LOCK SERRATED M6-1	4

# STARTER PANEL (UP-SERIES) ASSEMBLY DRAWING

Assemble Starter Components to Mounting Base



**DETAIL A**  
SCALE 0.750

(Dwg. 22429013W7)

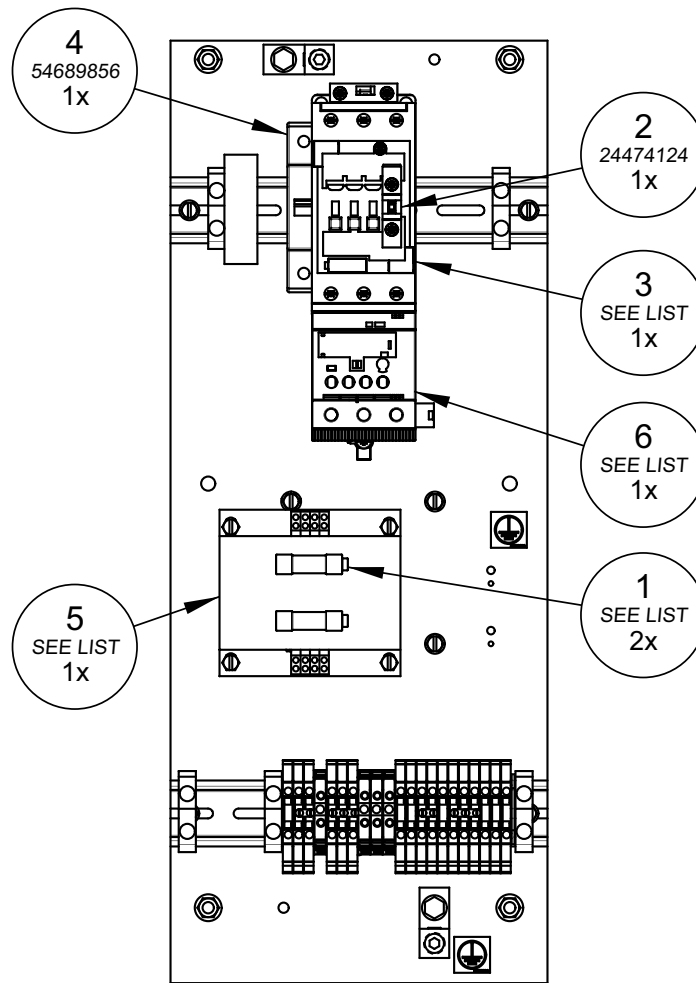
## STARTER PANEL (UP-SERIES) ASSEMBLY PARTS LIST

### Assemble Starter Components to Mounting Base

Item	Part No.	Description	Qty.
1	22477244	DECAL, GROUND SYMBOL	2
2	24888141	JUMPER BARS, BJM6-2 POLES	2
3	24888158	BLOCK TERMINAL JUMPER, 3-POLE	2
4	35252279	SCREW, SLOTTED WASHER HEAD TAPPING, NO. 10 X .50 LONG ZINC PLATED	4
5	54612940	TERMINAL, END PLATE	1
6	89205397	TERMINAL, END STOP	5
7	93469625	TERMINAL, WIRE 1-LEVEL GREY (4MM <sup>2</sup> )	17
8	93469633	TERMINAL, EARTH M4/6.P	4
9	47499669001	BASE, RELAY	1
10	47499674001	RELAY, 4P C/O 115V WITH SUPPRESSOR AND CLIP	1
11	47579809001	RELAY, TIMER MULTI-FUNCTION, ABB P/N CT-MFD.12	1

## STARTER PANEL (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

Assemble Starter Components to Mounting Base (DOL)



(Dwg. 22429013W8)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	SEE LIST	FUSE	2
2	24474124	CONTACT, AUX 1N/C FRONT MOUNT (ABB P/N CA4-01)	1
3	SEE LIST	CONTACTOR	1
4	54689856	BREAKER, CIRCUIT	1
5	SEE LIST	TRANSFORMER, WITH FUSE BLOCKS	1
6	SEE LIST	RELAY, O/L	1

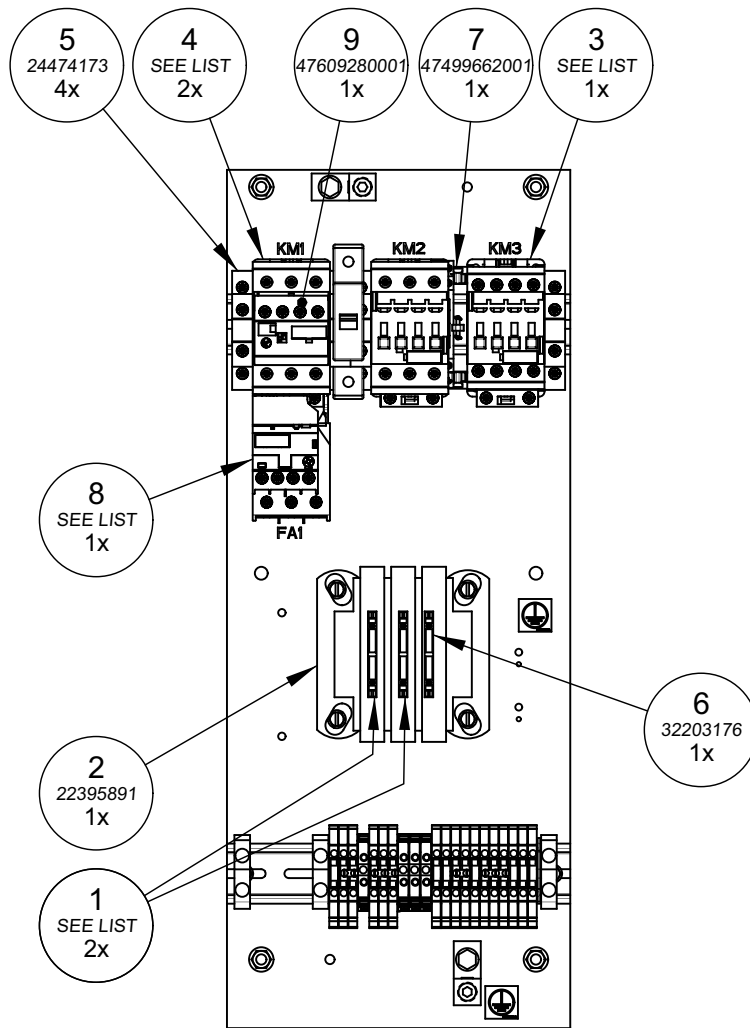
## STARTER PANEL (UP-SERIES) ASSEMBLY PARTS LIST

### Assemble Starter Components to Mounting Base (DOL)

Starter	Description	Item 3	Item 6	Item 5	Item 1
		Contactora	Overload	Transformer	Fuse 1FU/2FU Primary
42569384	STARTER 10 hp 200V 60 Hz F.V.	24738940	47609279001	47518259001	22177299
42569392	STARTER 10 hp 230V 60 Hz F.V.	24469728	47526212001		22177299
42578930	STARTER 10 hp 380V 60 Hz F.V.	24469710	47526211001	47526206001	39193289
42569400	STARTER 10 hp 460V 60 Hz F.V.	24469702	47499684001	47518259001	22177307
42569418	STARTER 10 hp 575V 60 Hz F.V.	24469702	47504390001		81291601
42569343	STARTER 15 hp 200 V 60 Hz F.V.	24738924	47607713001		22355234
42569350	STARTER 15 hp 230V 60 Hz F.V.	24738940	47607712001		39178728
42578948	STARTER 15 hp 380V 60 Hz F.V.	24469728	47526212001	47526206001	39193289
42569368	STARTER 15 hp 460V 60 Hz F.V.	24469710	47526211001	47518259001	22177307
42569376	STARTER 15 hp 575V 60 Hz F.V.	24469702	47499684001		81291601
42578906	STARTER 5 hp 200/1/60 F.V.	24469728	47526212001		22177299
42569475	STARTER 5 hp 200V 60 Hz F.V.	24469710	47499684001		22177299
42569517	STARTER 5 hp 230/1/60 F.V.	24469728	47505664001		22177299
42569483	STARTER 5 hp 230V 60 Hz F.V.	24469702	47499684001		22177299
42578914	STARTER 5 hp 380V 60 Hz F.V.	24469686	47499681001	47526206001	39193289
42569491	STARTER 5 hp 460V 60 Hz F.V.	24469686	47499663001	47518259001	22177307
42569509	STARTER 5 hp 575V 60 Hz F.V.	24469686	47506172001		81291601
42569426	STARTER 7.5 hp 200V 60 Hz F.V.	24469710	47505664001		22177299
42569467	STARTER 7.5 hp 230/1/60 F.V.	24738940	47607712001		22177299
42569434	STARTER 7.5 hp 230V 60 Hz F.V.	24469710	47526211001	22177299	
42578922	STARTER 7.5 hp 380V 60 Hz F.V.	24469702	47504390001	47526206001	39193289
42569442	STARTER 7.5 hp 460V 60 Hz F.V.	24469694	47499681001	47518259001	22177307
42569459	STARTER 7.5 hp 575V 60 Hz F.V.	24469686	47499681001		81291601

## STARTER PANEL (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Starter Components to Mounting Base (S/D)



(Dwg. 22429013W10)

### PARTS LIST

Item	Part No.	Description	Qty.
1	SEE LIST	FUSE	2
2	22395891	TRANSFORMER W/FUSE BLOCK, 80VA	1
3	SEE LIST	CONTACTOR	1
4	SEE LIST	CONTACTOR	2
5	24474173	CONTACT, AUX 1N/O, 1N/C SIDE, MOUNT (ABB P/N CAL4-11)	4
6	32203176	FUSE, 1 AMP UL CLASS CC, 600V NON-TIME DELAY	1
7	47499662001	INTERLOCK, MECHANICAL (ABB VM4)	1
8	SEE LIST	RELAY, O/L	1
9	47609280001	TIMER, OFF DELAY	1

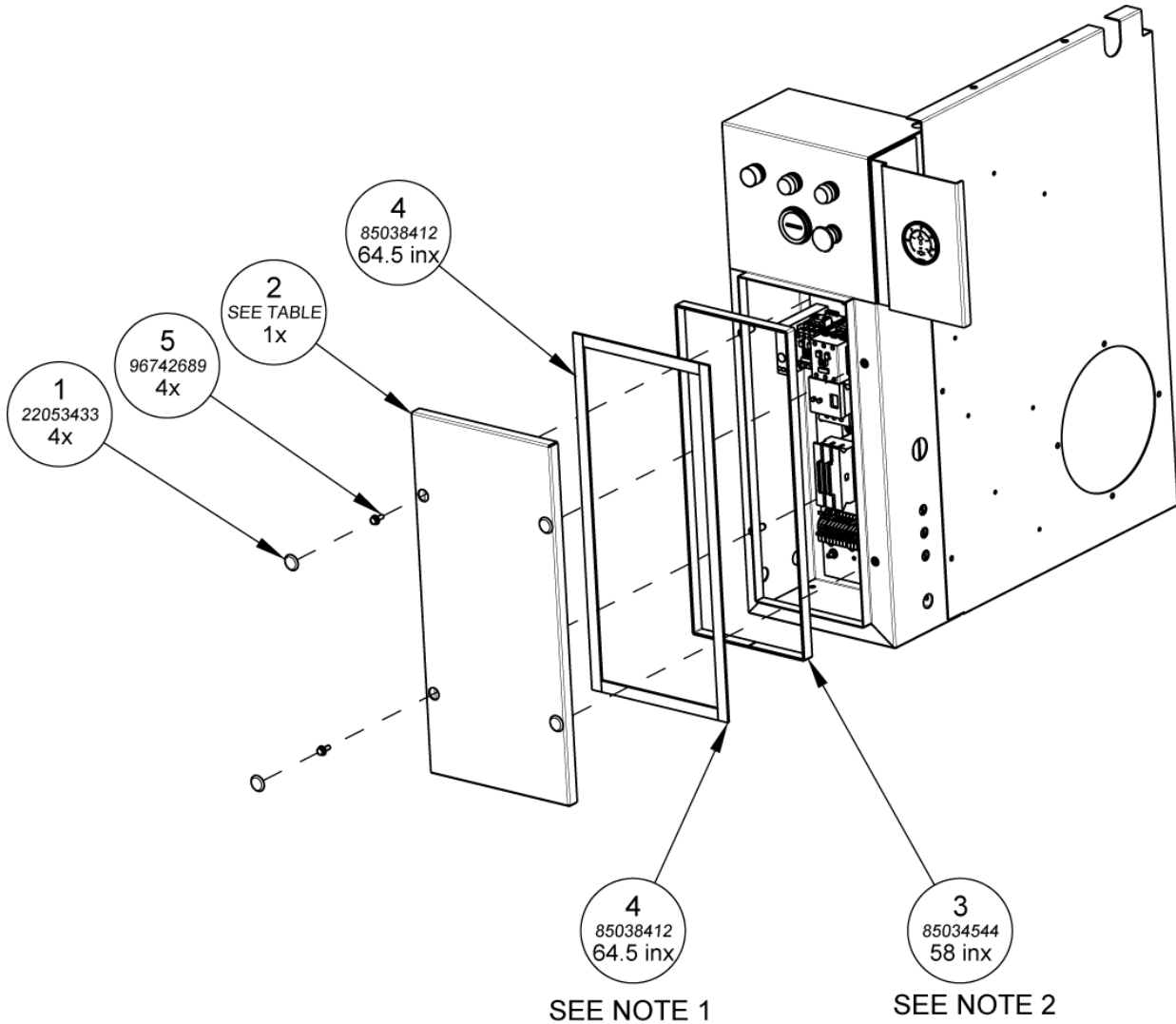
## STARTER PANEL (UP-SERIES) ASSEMBLY PARTS LIST

### Assemble Starter Components to Mounting Base (S/D)

Starter	Description	Contactors (KM1 & KM2)	Contactors KM3	Overload	Fuse 1FU/2FU Primary
42594499	STARTER 10 hp 460V 60 Hz S/D	24469702	24469686	47504390001	22177307
42569608	STARTER 11 kW 220V 50 Hz & 15 hp, 230V 60 Hz S/D	24469728	24469702	47505664001	22177299
42594481	STARTER 15 hp 460V 60 Hz S/D	24469702	24469694	47499684001	22177307
42569616	STARTER 7.5 kW 220V 50 Hz & 10 hp 230V 60 Hz S/D	24469710	24469702	47526211001	22177299

# STARTER PANEL (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Starter Panel Door



(Dwg. 22429013W11)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22053433	CAP, PLASTIC 18 mm HOLE	4
2	22479232	STARTER PANEL (NEMA 1)	1
	22398366	STARTER PANEL (IP55/NEMA 4)	1
3	85034544	GASKET, SLIDE ON	58"
4	85038412	GASKET, 0.125 INCH x 0.75 INCH (ADHESIVE BACKED)	64.5"
5	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	4

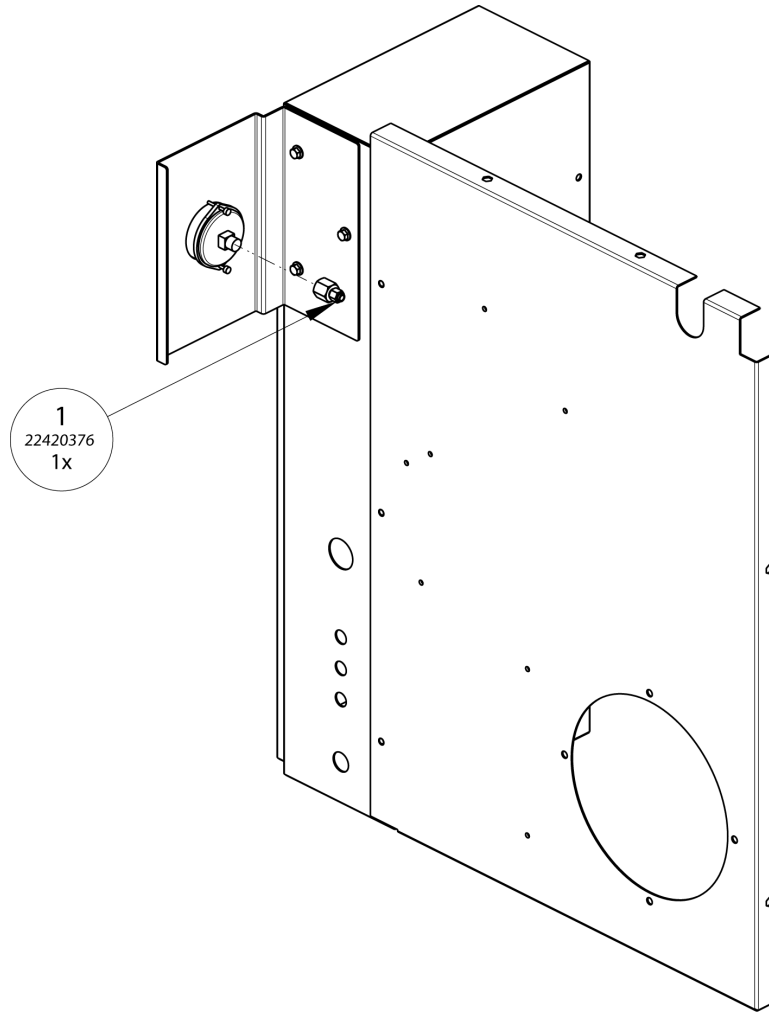
### NOTES:

**1. ADHESIVE BACKED GASKET STRIPS SHOWN ARE TO BE APPLIED TO THE BACK FLANGE SURFACES OF THE STARTER BOX COVER ON NEMA4/IP55 PACKAGES ONLY. CUT LENGTHS OF GASKET 85038412: 2X 23.25" AND 2X 9.0"**

**2. SLIDE ON GASKET GOES ON THE STARTER BOX ON NEMA 4/IP55 PACKAGES ONLY. USE SILICONE SEALANT TO CONNECT OPEN ENDS.**

# STARTER PANEL (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Gauge to Pressure Switch Tube



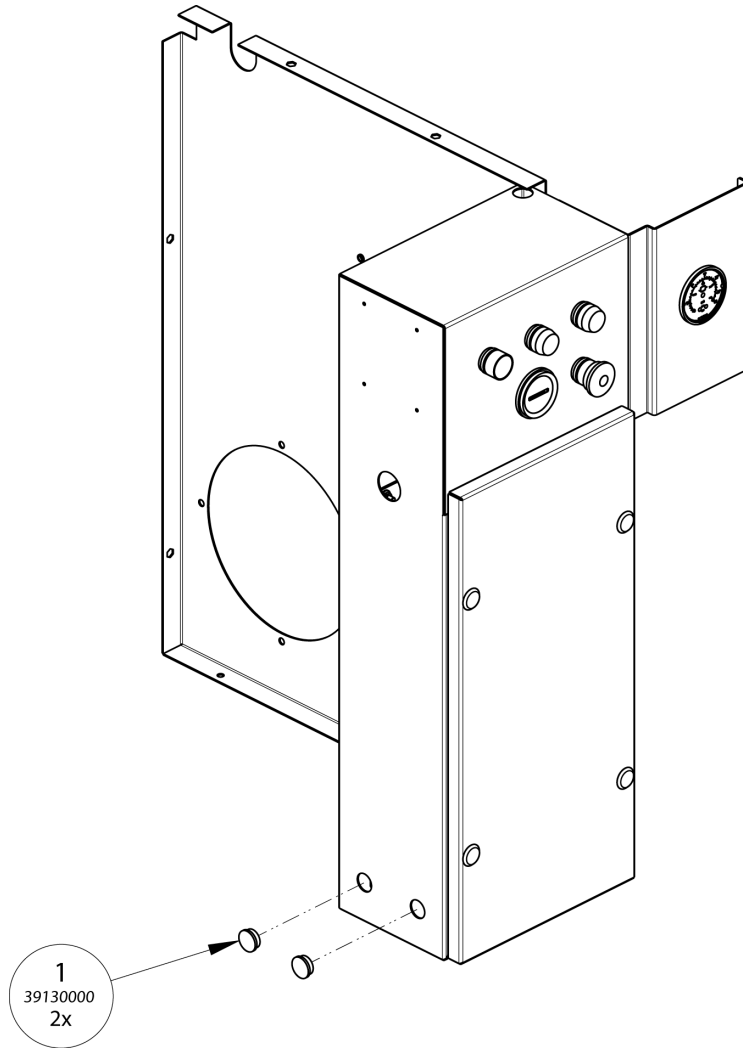
(Dwg. 22429013W12)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22420376	CONNECTOR, METRU-LOK 6 mm TUBE x 0.25 FNPT	1

# STARTER PANEL (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Plugs in Left Side of Starter Box (NEMA 1 ONLY)



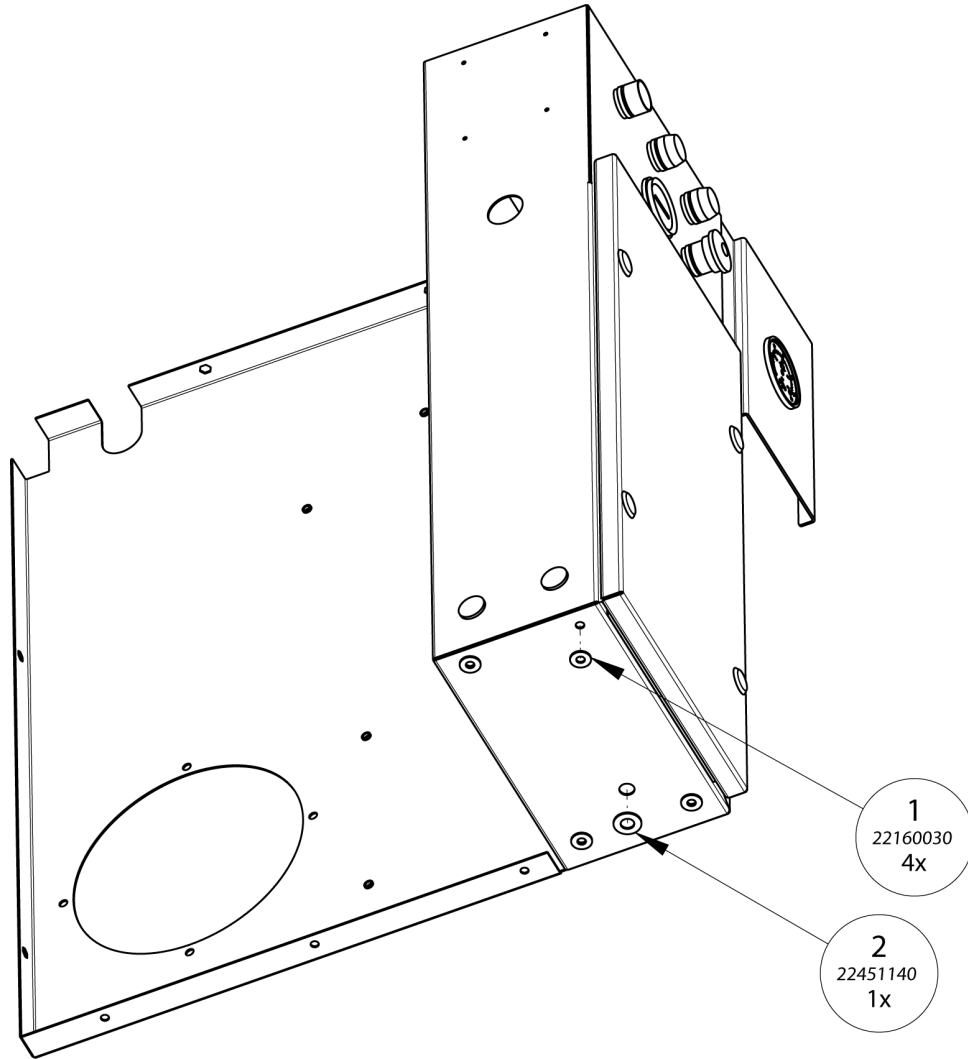
(Dwg. 22429013W13)

### PARTS LIST

Item	Part No.	Description	Qty.
1	39130000	KNOCKOUT PLUG, 0.50 INCH PLASTIC	2

## STARTER PANEL (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

Assemble Grommets into Bottom of Starter box (for NEMA4/IP55 only)



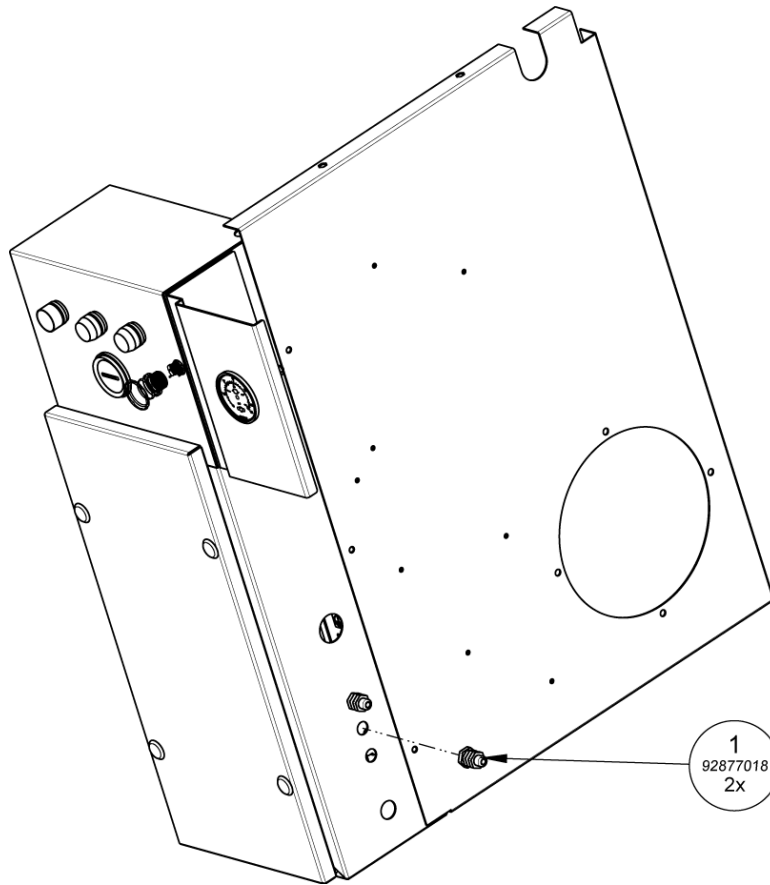
(Dwg. 22429013W14)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	22160030	WASHER, NEOPRENE (WITH ADHESIVE BACKING)	4
2	22451140	WASHER, NEOPRENE (WITH ADHESIVE BACKING)	1

# STARTER PANEL (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Cable Gland into Starter Box



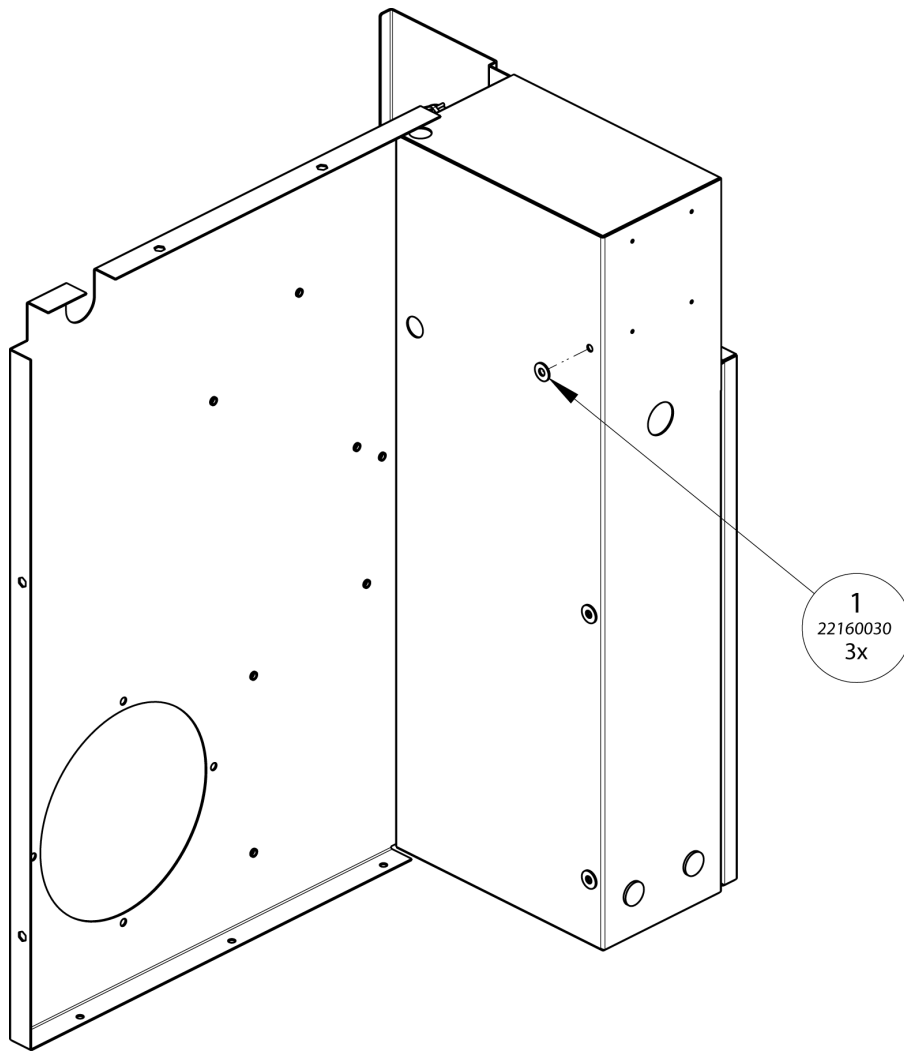
(Dwg. 22429013W15)

### PARTS LIST

Item	Part No.	Description	Qty.
1	92877018	GLAND, CABLE (LIQUID TIGHT FITTING)	2

## STARTER PANEL (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

**Assemble Adhesive Backed Neoprene Washers to Back of Starter Box (NEMA4/IP55 only)**



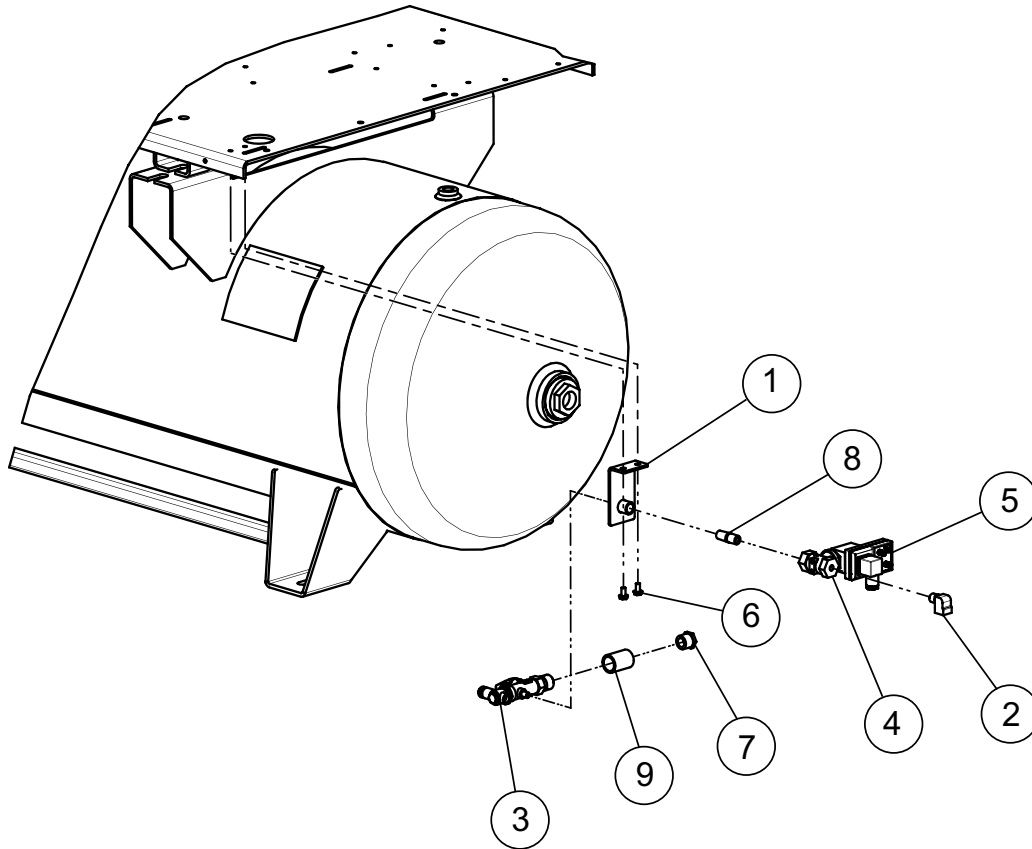
(Dwg. 22429013W16)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	22160030	WASHER, NEOPRENE (WITH ADHESIVE BACKING)	3

## DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

### Assemble Electric Drain Valve



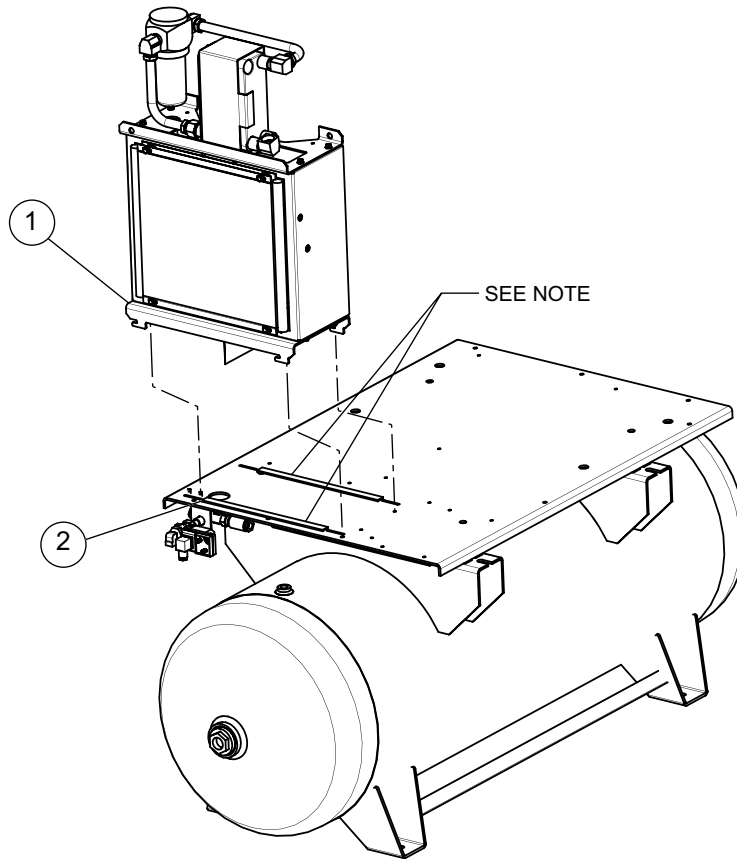
(Dwg. 22511034W2)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22457824	BRACKET, MOUNTING (EDV-2000)UP-SERIES 5-15 hp	1
2	37143542	0.25 INCH STREET ELBOW	1
3	54410931	ASSEMBLY, ELECTRIC DRAIN VALVE (W/0.437 INCH ORIFICE)	1
4	54410931	SOLENOID VALVE BODY (COMPONENT OF 54410931)	1
5	54410931	SOLENOID VALVE CONTROLS (COMPONENT OF 54410931)	1
6	92368687	TAPTITE SCREW M6-1 x 12 LONG	2
7	95037412	BUSHING, REDUCER 0.50 NPT x 0.25 FNPT	1
8	95944567	NIPPLE, EXTRA STRONG 0.25 NPT x 1.50 INCH LONG	1
9	95952388	COUPLING, STANDARD 0.50 NPT x 1.50 INCH LONG	1

## DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

### Assemble Dryer Module to Sub-base



(Dwg. 22511034W3)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	SEE TABLE	DRYER, X-CHILL	1
2	85038412	GASKET (ADHESIVE BACKED)	SEE TABLE

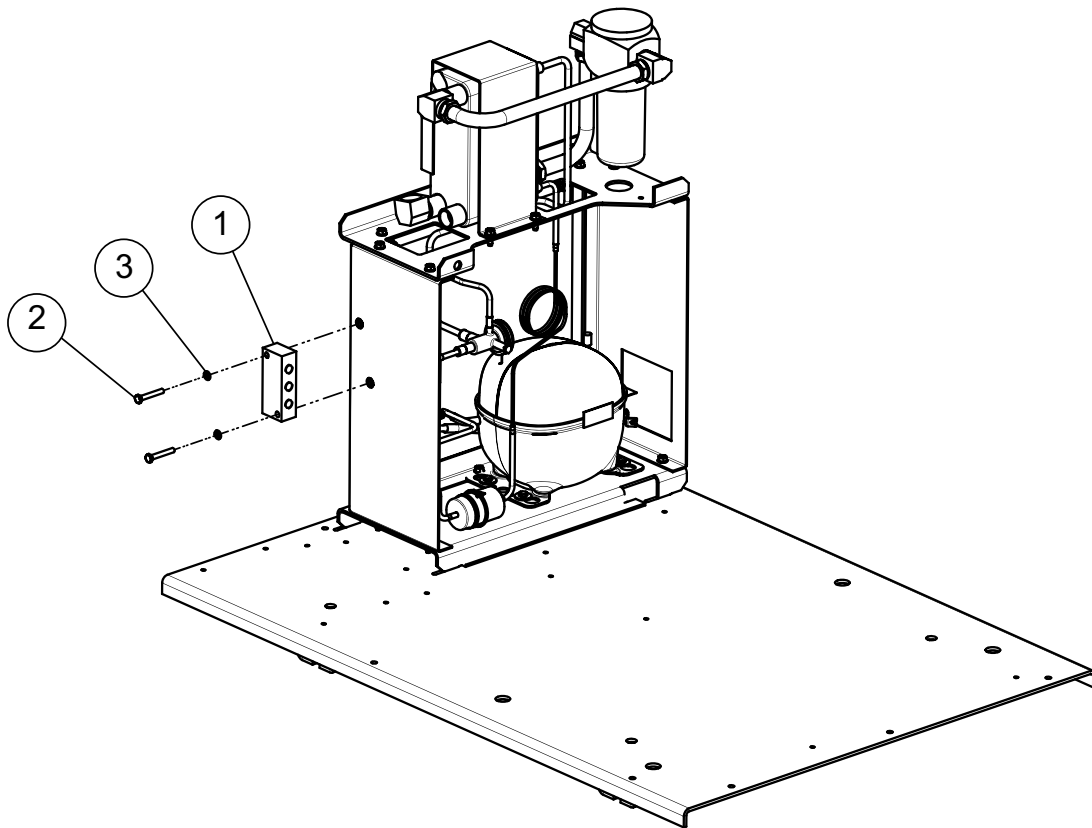
Group	Dryer	Gasket Qty.
60 Hz 10/15 hp 60 Hz 10/15 hp (W/BYPASS)	42567933	0.08 ROLL
60 Hz 5/7.5 hp 60 Hz 5/7.5 hp (W/BYPASS)	42568428	0.08 ROLL
50 Hz 4/11 kW 50 Hz 4/11 kW (W/BYPASS)	42564591	0.04 ROLL

#### NOTE:

**APPLY TWO STRIPS OF GASKET TAPE TO BASE BETWEEN DRYER MOUNTING SLOTS.**

## DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

### Assemble Condensate Manifold Block to Dryer Module



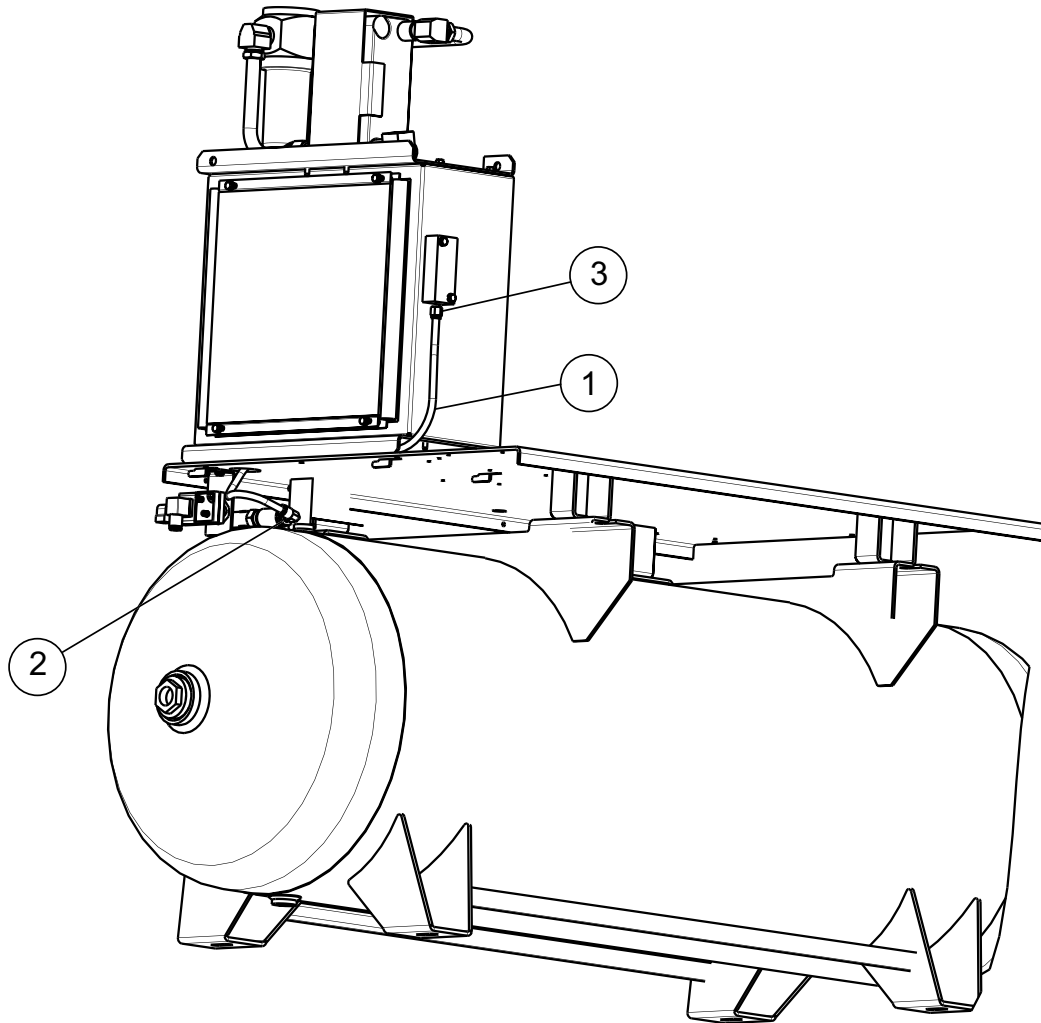
(Dwg. 22511034W4)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	22480107	MANIFOLD, CONDENSATE (UP-SERIES DRYER)	1
2	96706809	SCREW, HEX HEAD M6-1 x 40 LONG	2
3	96727573	WASHER, SPRING LOCK, CURVED TYPE A, M6	2

## DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

Assemble Tube from Condensate Manifold Block to Electric Drain Valve



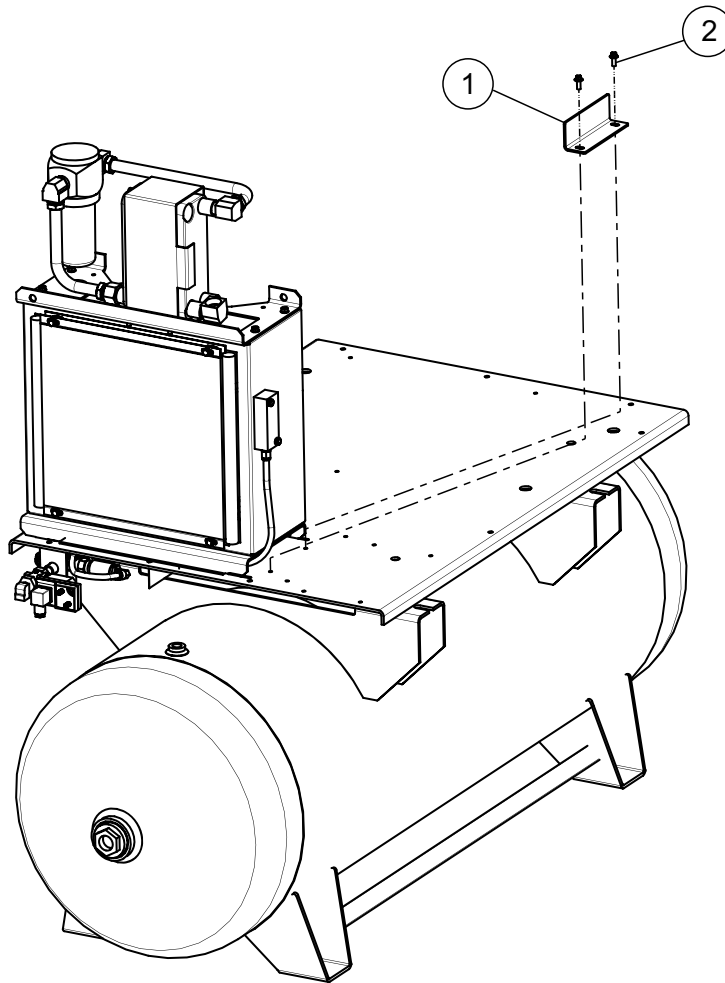
(Dwg. 22511034W5)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	39124821	TUBE, 0.375 INCH SYNDFLEX	2.5 FT
2	39155650	ELBOW, 0.25 NPT x 0.38 INCH TUBING	1
3	39156419	CONNECTOR, 0.25 NPT x 0.38 INCH TUBING	1

**DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW  
ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Dryer Mounting Bracket**



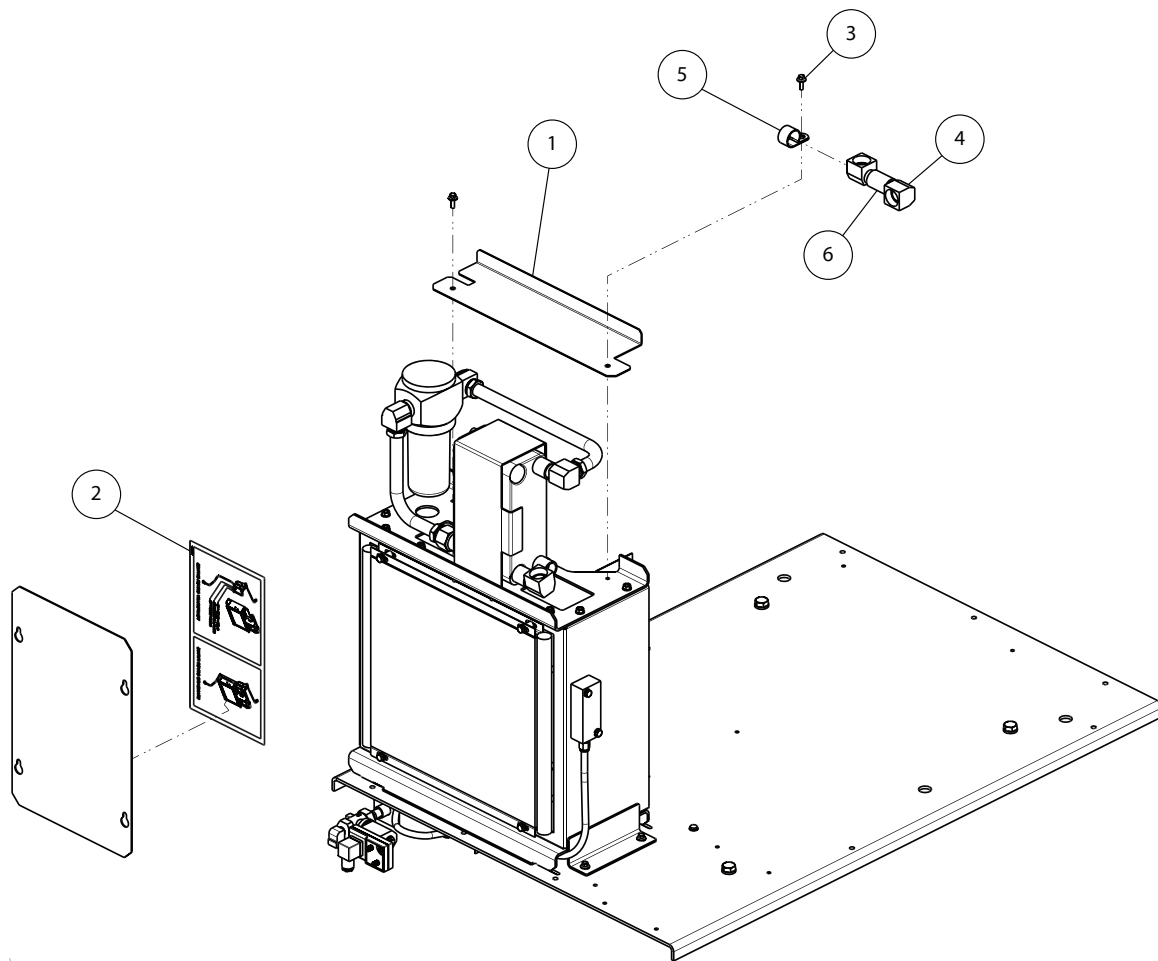
(Dwg. 22511034W6)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	22458756	BRACKET, DRYER MOUNTING (UP-SERIES 5-15 hp)	1
2	39917489	SCREW, HEX HEAD FLANGE M6 x 16.0 LONG	2

# DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

## Assemble Dryer Top Guard



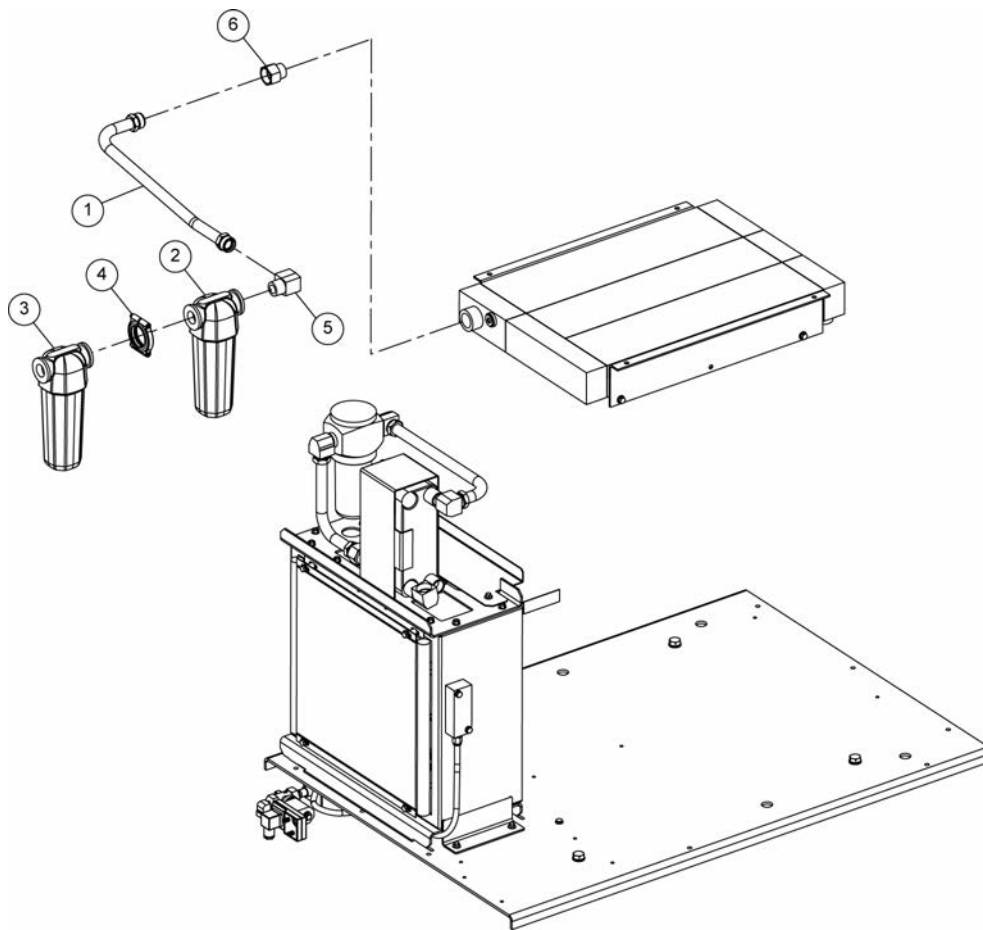
(Dwg. 22511034W7)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22479356	GUARD, DRYER (TOP) (UP-SERIES 5-15HP)	1
2	24615502	DECAL, DRYER BYPASS (TEMPERATURE)	1
3	39917489	SCREW, HEX HEAD FLANGE M6 X 16.0 LONG	2
4	95031779	ELBOW, INVERTED FLARE 90° MALE 0.75 TUBE X 0.50 NPT	2
5	95654208	CLAMP, HOSE SUPPORT 1.0 INCH NOMINAL DIA HOSE	1
6	54386974	COUPLING, STANDARD 0.50 NPT X 1.50 LONG	1

## DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

### Assemble Dryer Filters



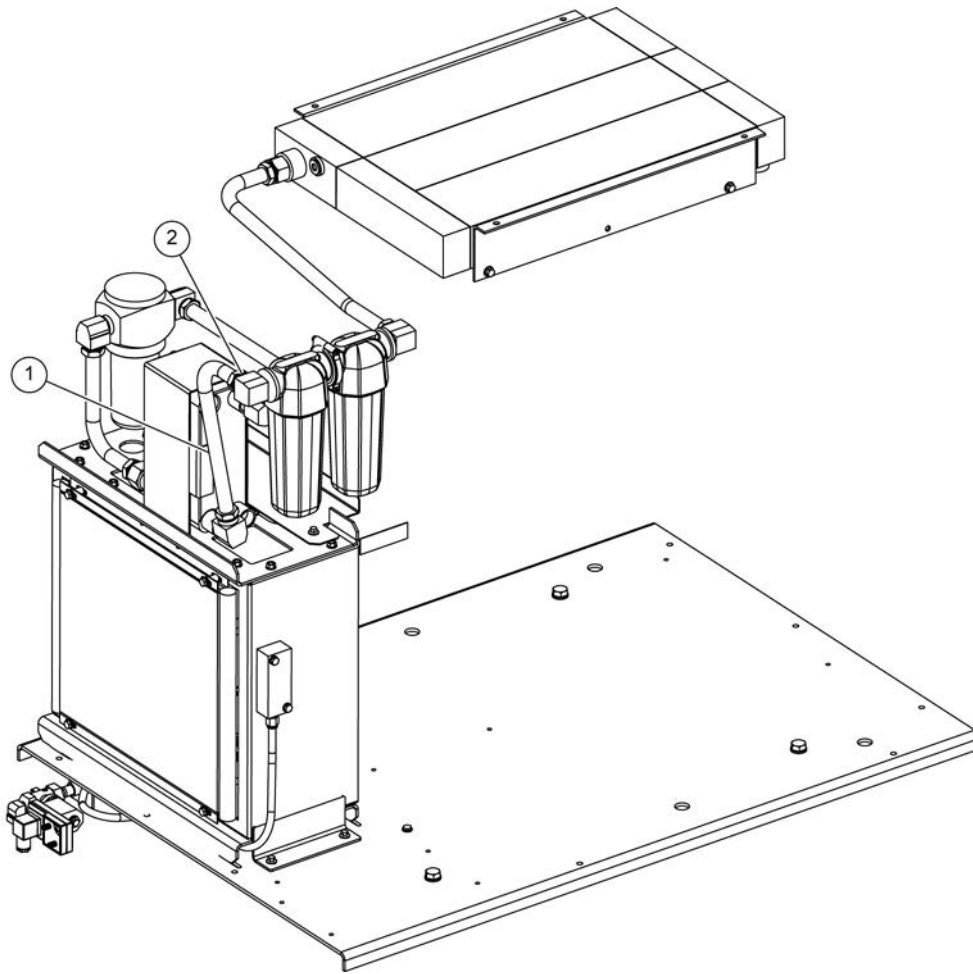
(Dwg. 22511034W8)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22402838	TUBE ASSEMBLY, DISCHARGE (COMPRESSOR DISCHARGE/FILTERS)	1
2 GENERAL PURPOSE FILTER	24233371	FILTER, (FA 75 IGX) (F-CAST SERIES) (ELEMENT 24241895) (60 Hz 5/7.5 hp 50 Hz 4/5.5 KW)	1
	85567121	FILTER, (DH F71 IGX) (ELIMINATOR SERIES) (ELEMENT 85565547) (60 Hz 5/7.5 hp 50 Hz 4/5.5 KW)	1
	24233454	FILTER, (FA 101 IGX) (F-CAST SERIES) (ELEMENT 24241952) (60 Hz 10/15 hp 50 Hz 7.5/11 KW)	1
	85567162	FILTER, (DH F108 IGX) (ELIMINATOR SERIES) (ELEMENT 85565588) (60 Hz 10/15 hp 50 Hz 7.5/11 KW)	1
3 HIGH EFFICIENCY FILTER	24233397	FILTER, (FA 75 IHX) (F-CAST SERIES) (ELEMENT 24241903) (60 Hz 5/7.5 hp 50 Hz 4/5.5 KW)	1
	85567139	FILTER, (DH F71 IHX) (ELIMINATOR SERIES) (ELEMENT 85565554) (60 Hz 5/7.5 hp 50 Hz 4/5.5 KW)	1
	24233470	FILTER, (FA 101 IHX) (F-CAST SERIES) (ELEMENT 24241960) (60 Hz 10/15 hp 50 Hz 7.5/11 KW)	1
	85567170	FILTER, (DH F108 IHX) (ELIMINATOR SERIES) (ELEMENT 85565596) (60 Hz 10/15 hp 50 Hz 7.5/11 KW)	1
4	24361925	CLAMP KIT FC75I-FC110I	1
5	95031761	ELBOW, INVERTED FLARE 90° MALE 0.75 TUBE x 0.75 NPT	1
6	95083275	CONNECTOR, INVERTED FLARE 0.75 NPT x 0.75 TUBE	1

# DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

## Assemble Tube Assembly from Filters to Heat Exchanger



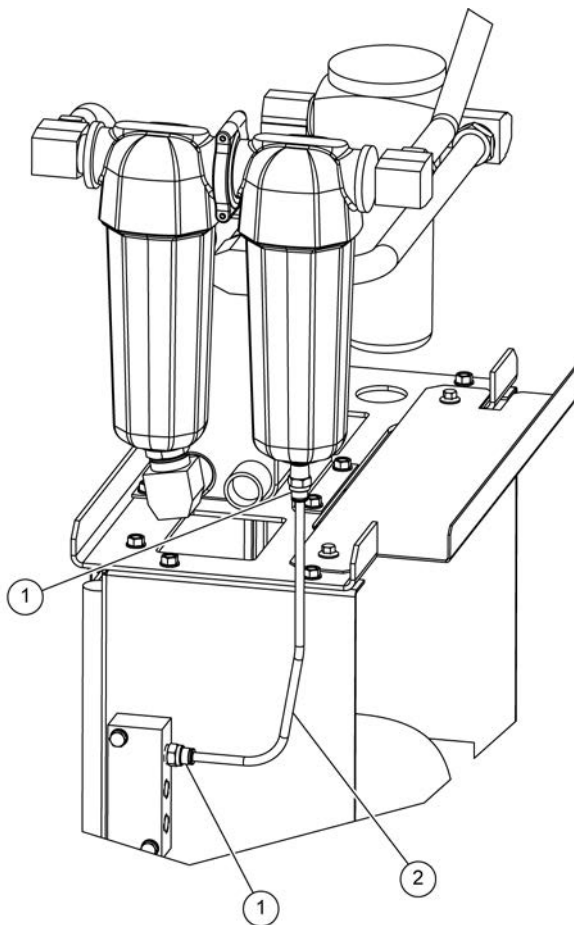
(Dwg. 22511034W9)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	23317019	TUBE, FILTERS/DRYER INLET	1
2	95031761	ELBOW, INVERTED FLARE 90° MALE 0.75 TUBE x 0.75 NPT	1

## DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

**Assemble Condensate Tube from General Purpose Filter to Condensate Manifold Block**



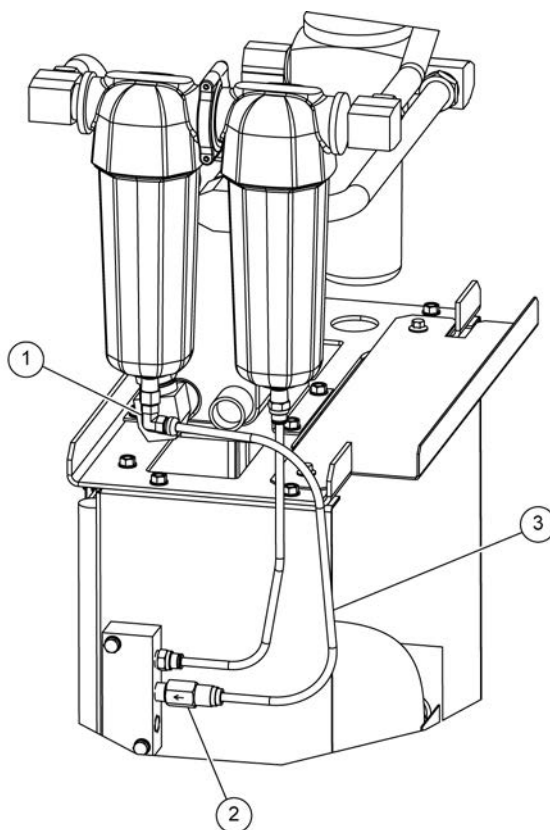
(Dwg. 22511034W10)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	22601371	CONNECTOR, MALE 0.25 NPT x 6 mm TUBE	2
2	92490358	TUBE, NYLON 6 mm O.D. (BLUE)	0.7 FT.

## DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

Assemble Condensate Tube from High Efficiency Filter to Condensate Manifold Block



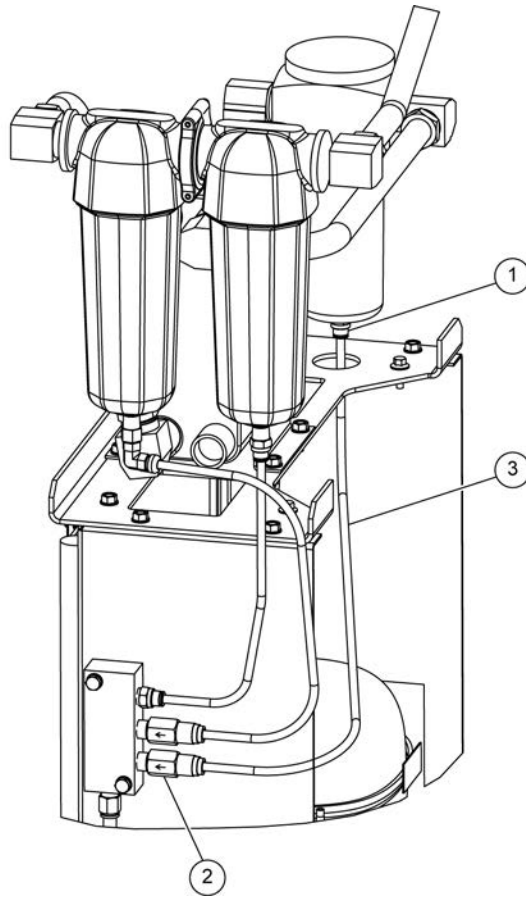
(Dwg. 22511034W11)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	22601389	ELBOW, MALE 0.25 NPT x 6 mm TUBE	1
2	22602197	VALVE, CHECK 0.25 NPT MALE x 6 mm TUBE	1
3	92490358	TUBE, NYLON 6 mm O.D. (BLUE)	1 FT

**DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW  
ASSEMBLY DRAWING AND PARTS LIST**

Assemble Condensate Tube from Moisture Separator to Condensate Manifold Block



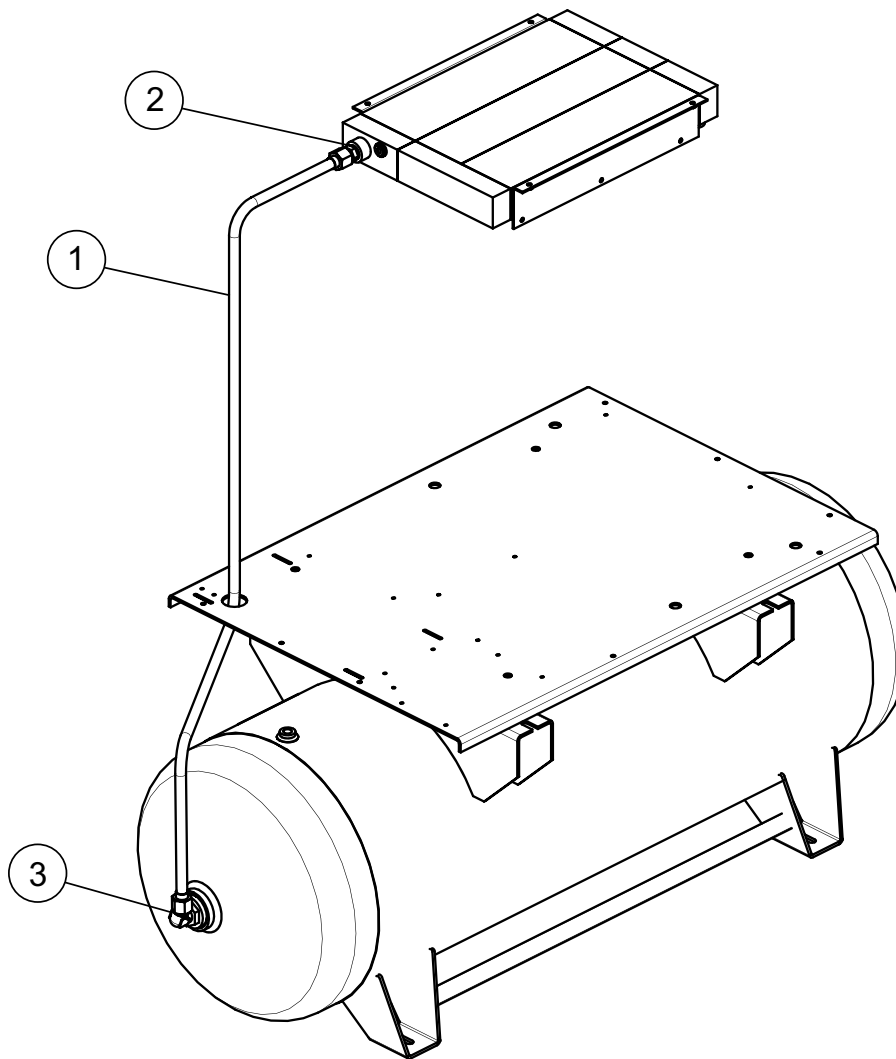
(Dwg. 22511034W12)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	22601371	CONNECTOR, MALE 0.25 NPT x 6 mm TUBE	1
2	22602197	VALVE, CHECK 0.25 NPT MALE x 6 mm TUBE	1
3	92490358	TUBE, NYLON 6 mm O.D. (BLUE)	2.2 FT

## DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

Assemble Standard Discharge Tube Assembly to Receiver (No Dryer)



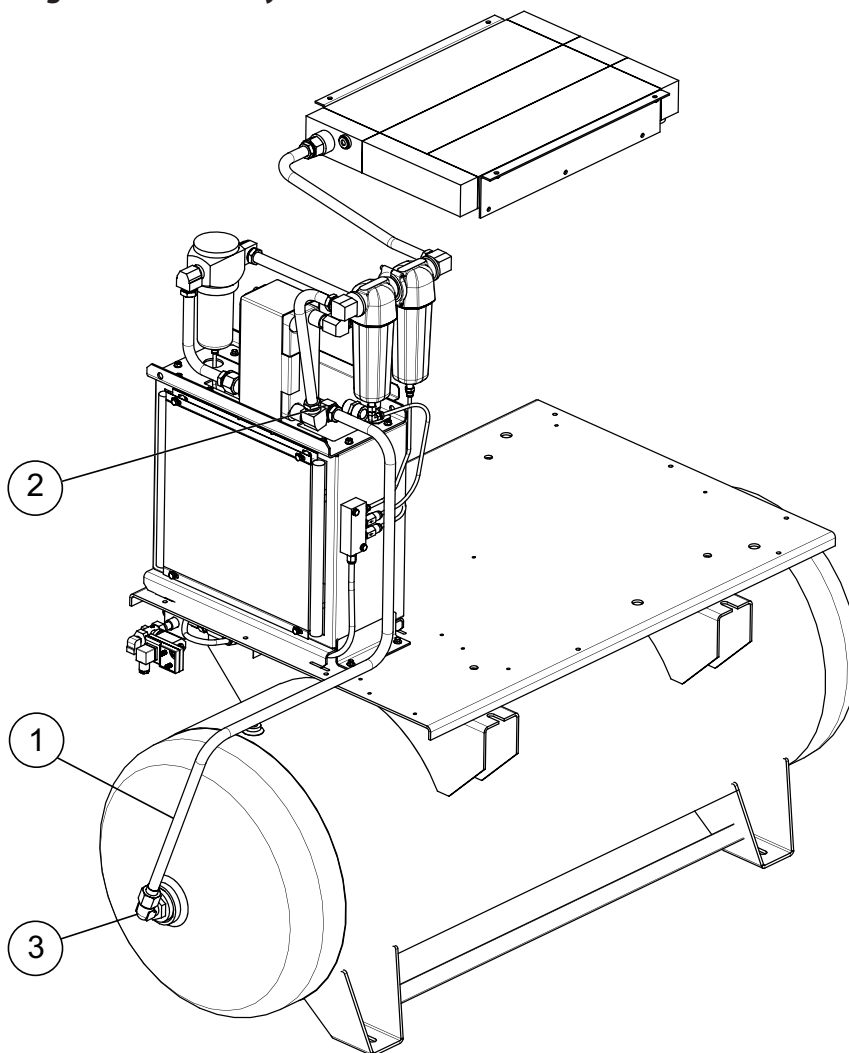
(Dwg. 22511034W13)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	47618851001	TUBE ASSEMBLY, DISCHARGE, 80 GAL. - 20 INCH DIA (STD)	1
	47618854001	TUBE ASSEMBLY, DISCHARGE 120 GAL. (STD)	1
	22469597	TUBE ASSEMBLY, DISCHARGE, 272 LITRE (STD)	1
	22771281	TUBE ASSEMBLY, DISCHARGE, 272 LITRE (STD)-ESA	1
	22469613	TUBE ASSEMBLY, DISCHARGE, 500 LITRE (STD)	1
	22771315	TUBE ASSEMBLY, DISCHARGE, 500 LITRE (STD)-ESA	1
2	92106210	CONNECTOR, MALE 0.75 BSPT X -12JIC	1
3	95937637	ELBOW, 0.75 TUBE X 0.75 NPT, 80 GAL. - 20 INCH DIA (STD), 24 INCH DIA (STD), 120 GAL. (STD)	1
	92176692	ELBOW, 0.75 TUBE X 0.75 NPT, 272 LITRE (STD), 272 LITRE (STD)-ESA, 500 LITRE (STD), 500 LITRE (STD)-ESA	1

## DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

### Assemble Dryer Discharge Tube Assembly to Receiver



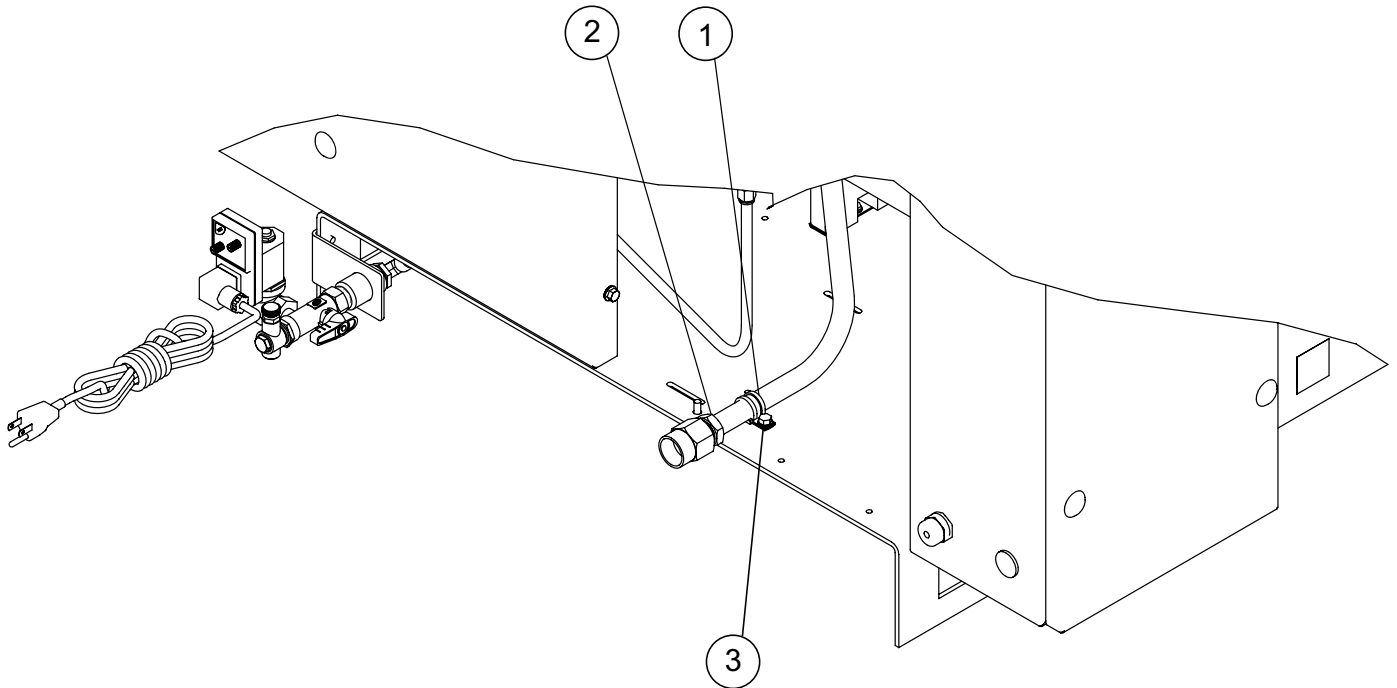
(Dwg. 22511034W14)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	47618855001	TUBE, ASSEMBLY, DISCHARGE, 80 GAL. - 20 INCH DIA (W/DRYER)	1
	47618852001	TUBE, ASSEMBLY, DISCHARGE, 120 GAL. (W/DRYER)	1
	22479810	TUBE, ASSEMBLY, DISCHARGE, 272 LITRE (W/DRYER)	1
	22771299	TUBE, ASSEMBLY, DISCHARGE, 272 LITRE (W/DRYER)-ESA	1
	22479828	TUBE, ASSEMBLY, DISCHARGE, 500 LITRE (W/DRYER)	1
	22771323	TUBE, ASSEMBLY, DISCHARGE, 500 LITRE (W/DRYER)-ESA	1
2	95083259	CONNECTOR, INVERTED FLARE 0.50 NPT X 0.75 TUBE	1
3	95937637	ELBOW 0.75 TUBE X 0.75 NPT OR BSPT, 80 GAL. - 20 INCH DIA (W/DRYER), 24 INCH DIA (W/DRYER), 120 GAL. (W/DRYER)	1
	92176692	ELBOW 0.75 TUBE X 0.75 NPT OR BSPT, 272 LITRE (W/DRYER), 272 LITRE (W/DRYER)-ESA, 500 LITRE (W/DRYER), 500 LITRE (W/DRYER)-ESA	1

## DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

### Assemble Discharge Tube Assembly For Base Mounted Package



(Dwg. 22511034W15)

#### PARTS LIST

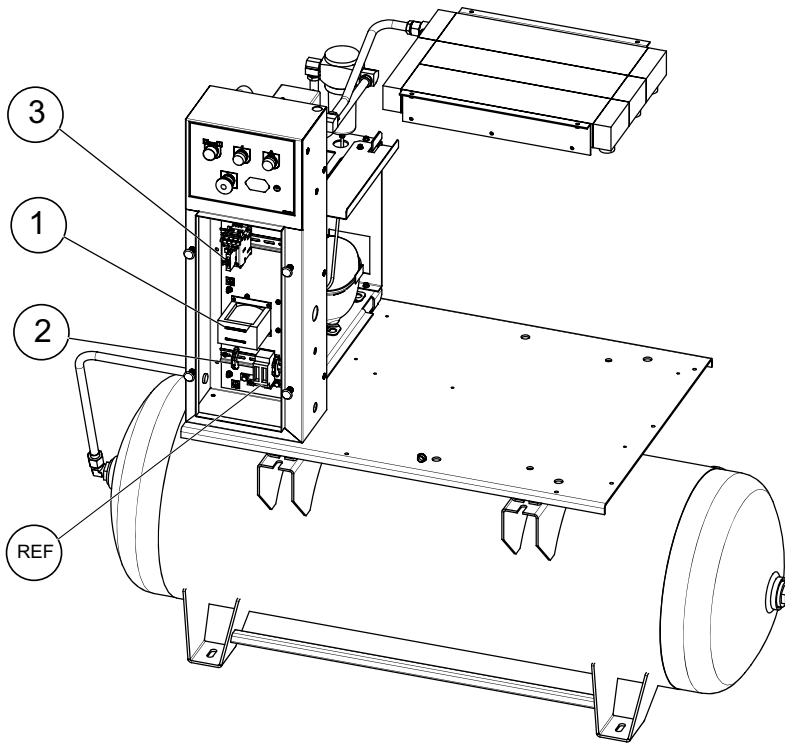
Item	Part No.	Description	Qty.
1	22480446	CLAMP, 0.75 INCH TUBE INSULATED	1
2	23288566	TUBE, ASSEMBLY, DISCHARGE (BASEPLATE W/DRYER)	1
	23288574	TUBE, ASSEMBLY, DISCHARGE (DYER PACKAGE W/BYPASS)	1
3	92368687	SCREW, TPG M6-1 x 14 LONG	1

#### NOTE:

- 1. BSPT GROUPS HAVE AN ADAPTER FROM NPT TO BSPT - (39183306) NOT ILLUSTRATED.
- 2. SAME CLAMP 22480446 AND SCREW 92368687 REQUIRED FOR 20 INCH DIA TANK ASSEMBLY.

## DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

### Assembly Dryer Starter Assembly into Starter Panel



(Dwg. 22511034W16)

### PARTS LIST

Item	Part No.	Description	Qty.
1	22177299	FUSE, TIME DELAY, 15 HP 200V 60Hz F.V.	2
	22177299	FUSE, TIME DELAY, 15 HP 230V 60Hz F.V.	2
	39193289	FUSE, TIME DELAY, 15 HP 380V 60Hz F.V.	2
	22177307	FUSE, TIME DELAY, 15 HP 460V 60Hz F.V.	2
	22177307	FUSE, TIME DELAY, 15 HP 460V 60Hz S/D	2
	81291601	FUSE, TIME DELAY, 15 HP 575V 60Hz F.V.	2
	22177299	FUSE, TIME DELAY, 10 HP 200V 60Hz F.V.	2
	22177299	FUSE, TIME DELAY, 10 HP 230V 60Hz F.V.	2
	39193289	FUSE, TIME DELAY, 10 HP 380V 60Hz F.V.	2
	22177307	FUSE, TIME DELAY, 10 HP 460V 60Hz F.V.	2
	22177307	FUSE, TIME DELAY, 10 HP 460V 60Hz S/D	2
	81291601	FUSE, TIME DELAY, 10 HP 575V 60Hz F.V.	2
	22177299	FUSE, TIME DELAY, 7.5 HP 200V 60Hz F.V.	2
	22177299	FUSE, TIME DELAY, 7.5 HP 230V 60Hz F.V.	2
	39193289	FUSE, TIME DELAY, 7.5 HP 380V 60Hz F.V.	2
	22177307	FUSE, TIME DELAY, 7.5 HP 460V 60Hz F.V.	2
	81291601	FUSE, TIME DELAY, 7.5 HP 575V 60Hz F.V.	2
	22177299	FUSE, TIME DELAY, 7.5 HP 230/1/60 F.V.	2

## DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

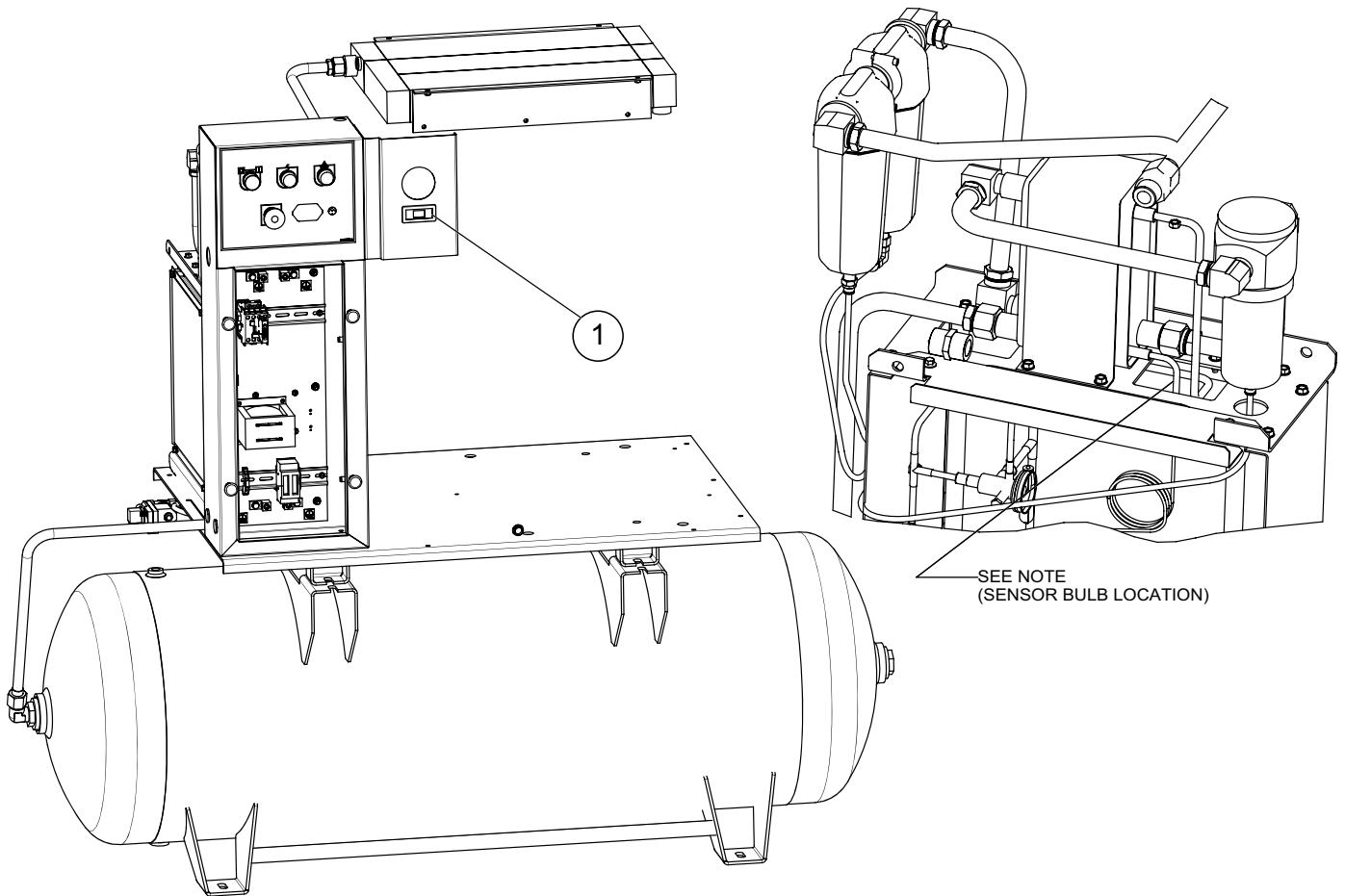
### Assembly Dryer Starter Assembly into Starter Panel

#### PARTS LIST

Item	Part No.	Description	Qty.
1	22177299	FUSE, TIME DELAY, 5 HP 200V 60Hz F.V.	2
	22177299	FUSE, TIME DELAY, 5 HP 230V 60Hz F.V.	2
	39193289	FUSE, TIME DELAY, 5 HP 380V 60Hz F.V.	2
	22177307	FUSE, TIME DELAY, 5 HP 460V 60Hz F.V.	2
	81291601	FUSE, TIME DELAY, 5 HP 575V 60Hz F.V.	2
	22177299	FUSE, TIME DELAY, 5 HP 200/1/60 F.V.	2
	22177299	FUSE, TIME DELAY, 5 HP 230/1/60 F.V.	2
	39193289	FUSE, TIME DELAY, 11KW 380/400/415V 50Hz S/D	2
	22177299	FUSE, TIME DELAY, 11KW 220V 50Hz & 15HP 230V 60Hz S/D	2
	39193289	FUSE, TIME DELAY, 7.5KW 380/400/415V 50Hz S/D	2
	39193289	FUSE, TIME DELAY, 7.5KW 380/400/415V 50Hz F.V.	2
	22177299	FUSE, TIME DELAY, 7.5KW 220V 50Hz & 10HP 230V 60Hz S/D	2
	22177299	FUSE, TIME DELAY, 7.5KW 220V 50Hz F.V.	2
	39193289	FUSE, TIME DELAY, 5.5KW 380/400/415V 50Hz S/D	2
	39193289	FUSE, TIME DELAY, 5.5KW 380/400/415V 50Hz F.V.	2
	22177299	FUSE, TIME DELAY, 5.5KW 220V 50Hz S/D	2
	22177299	FUSE, TIME DELAY, 5.5KW 220V 50Hz F.V.	2
	39193289	FUSE, TIME DELAY, 4KW 380/400/415V 50Hz S/D	2
	39193289	FUSE, TIME DELAY, 4KW 380/400/415V 50Hz F.V.	2
	22177299	FUSE, TIME DELAY, 4KW 220V 50Hz S/D	2
22177299	FUSE, TIME DELAY, 4KW 220V 50Hz F.V.	2	
2	22505762	ASSEMBLY, STARTER 60 Hz FV DRYER	1
3	24474116	CONTACT, AUX 1N/0 FRONT MOUNT (ABB P/N CA4-10)	1

## DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

Assemble Dew Point Indicator into Gauge Panel



(Dwg. 22511034W17)

**PARTS LIST**

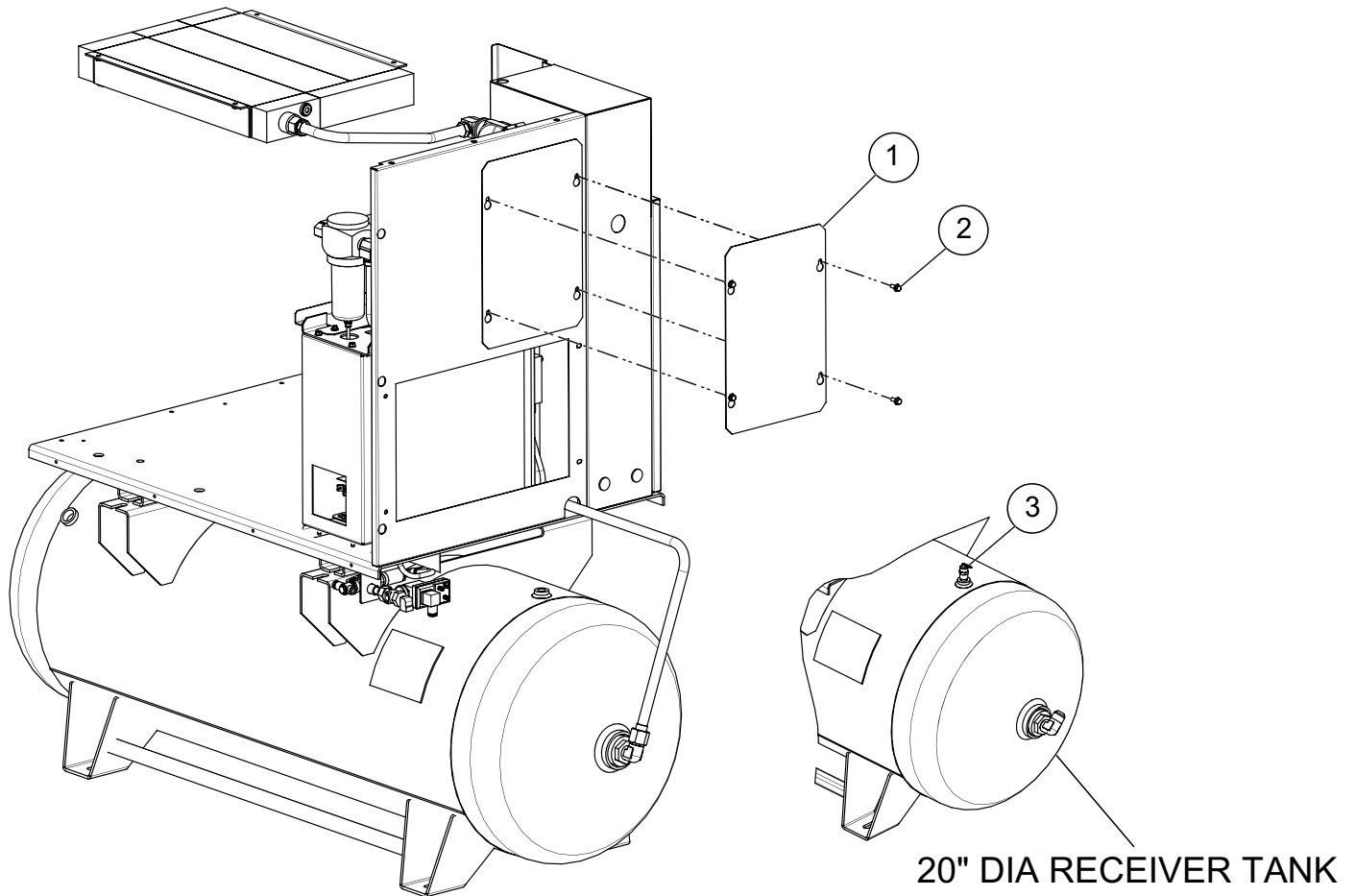
Item	Part No.	Description	Qty.
1	22454540	THERMOMETER, REMOTE DIAL	1

**NOTE:**

**MAKE A CIRCULAR CUT THROUGH THE INSULATION ON THE INDICATED TUBE. ATTACH THE DEW POINT INDICATOR SENSOR BULB TO THE COPPER TUBE USING CLAMP #22810261. AFTER THE SENSOR HAS BEEN FIRMLY ATTACHED, REWRAP THE INSULATION WITH TAPE #22499628.**

## DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY DRAWING AND PARTS LIST

### Assemble Dryer Filter Access Cover



(Dwg. 22511034W18)

### PARTS LIST

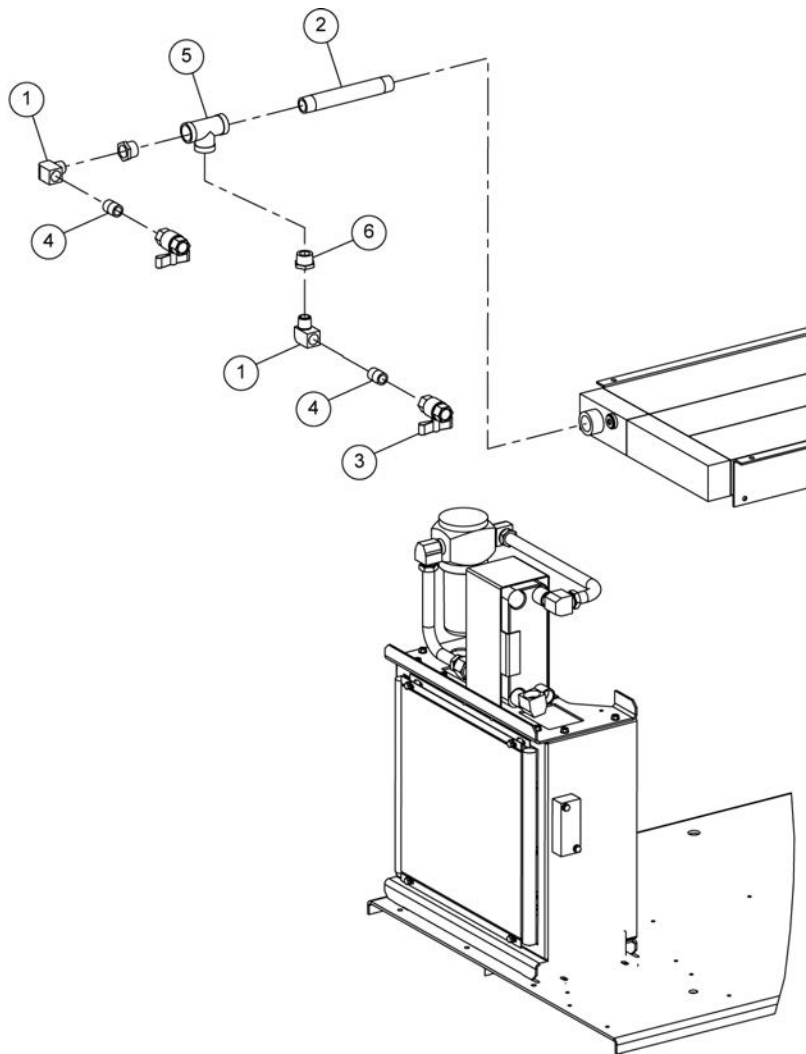
Item	Part No.	Description	Qty.
1	22481493	COVER, ACCESS (DRYER FILTERS)	1
2	96742689	BOLT, HEX FLANGE M6-1 x 16 LONG	4
3	22550552	SAFETY VALVE, 80 GAL (ASME) - 20 INCH DIA	1
	22052450	SAFETY VALVE, 80 GAL (ASME) - 24 INCH DIA	1
	22052450	SAFETY VALVE, 120 GAL (ASME)	1
	18990762	SAFETY VALVE, 272 LITRE 11 BAR CHINA	1
	22431779	SAFETY VALVE, 272 LITRE 11 BAR AUSTRALIA	1
	22493902	SAFETY VALVE, 272 LITRE 11 BAR SINGAPORE/MALAYSIA	1
	22493902	SAFETY VALVE, 272 LITRE 11 BAR INDIA	1
	22431787	SAFETY VALVE, 272 LITRE 16 BAR CHINA	1
	22431787	SAFETY VALVE, 272 LITRE 16 BAR AUSTRALIA	1
	22378665	SAFETY VALVE, 272 LITRE 16 BAR INDIA	1
	22401590	SAFETY VALVE, 272 LITRE 16 BAR ESA	1
	18990762	SAFETY VALVE, 500 LITRE 11 BAR CHINA	1
	22431779	SAFETY VALVE, 500 LITRE 11 BAR AUSTRALIA	1
	22493902	SAFETY VALVE, 500 LITRE 11 BAR SINGAPORE/MALAYSIA	1

## DISCHARGE TUBE OPTIONS & STANDARD DRYER PACKAGE 5-15 HP/4-11 KW ASSEMBLY PARTS LIST

Item	Part No.	Description	Qty.
3	22493902	SAFETY VALVE, 500 LITRE 11 BAR INDIA	1
	22431787	SAFETY VALVE, 500 LITRE 16 BAR CHINA	1
	22431787	SAFETY VALVE, 500 LITRE 16 BAR AUSTRALIA	1
	22378665	SAFETY VALVE, 500 LITRE 16 BAR INDIA	1
	22401590	SAFETY VALVE, 500 LITRE 16 BAR ESA	1
	99332009	SAFETY VALVE, 272 LITRE 8 BAR CHINA	1
	99332009	SAFETY VALVE, 500 LITRE 8 BAR CHINA (GB150)	1
	23655236	SAFETY VALVE, 272 LITRE 11 BAR (ESA)	1
	23655236	SAFETY VALVE, 500 LITRE 11 BAR (ESA)	1

## DRYER BYPASS (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Cooler Discharge Pipe and Fittings W/Bypass



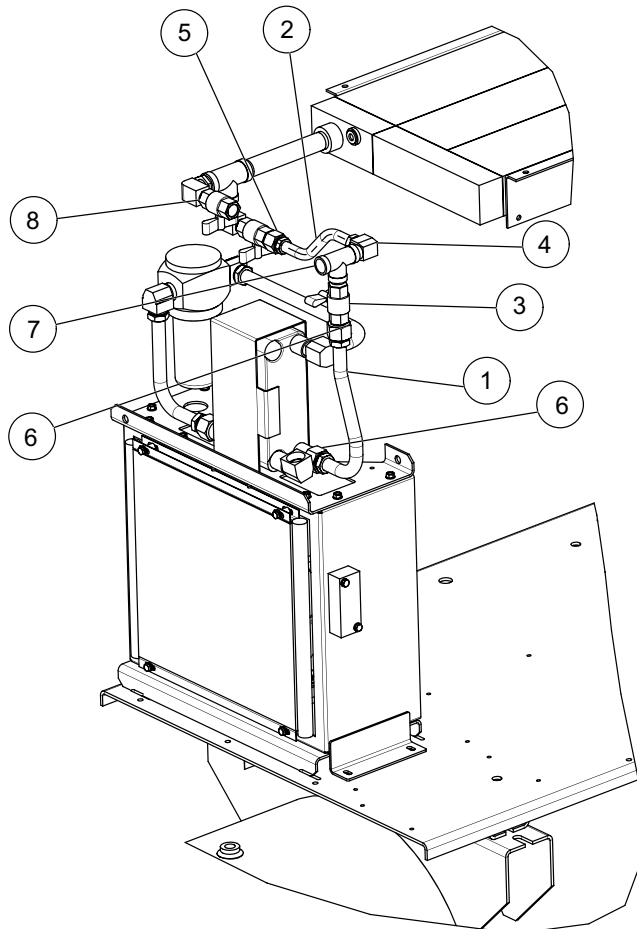
(Dwg. 22511745L2)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	16545998	ELBOW, STREET 0.50 NPT PARKER #2202P-8-8	2
2	22504427	PIPE, DISCHARGE EXTENSION 0.75 NPT x 180 mm LONG.	1
3	54450176	VALVE, BALL 0.50 T-HANDLE	2
4	95934279	NIPPLE, EXTRA STRONG 0.50 NPT x 1.13 LONG	2
5	95953410	TEE, 300# 0.75 FNPT	1
6	95953949	BUSHING, REDUCER 0.75 NPT x 0.50 FNPT	2

## DRYER BYPASS (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Dryer Heat Exchanger Discharge Tube and Fittings W/Bypass



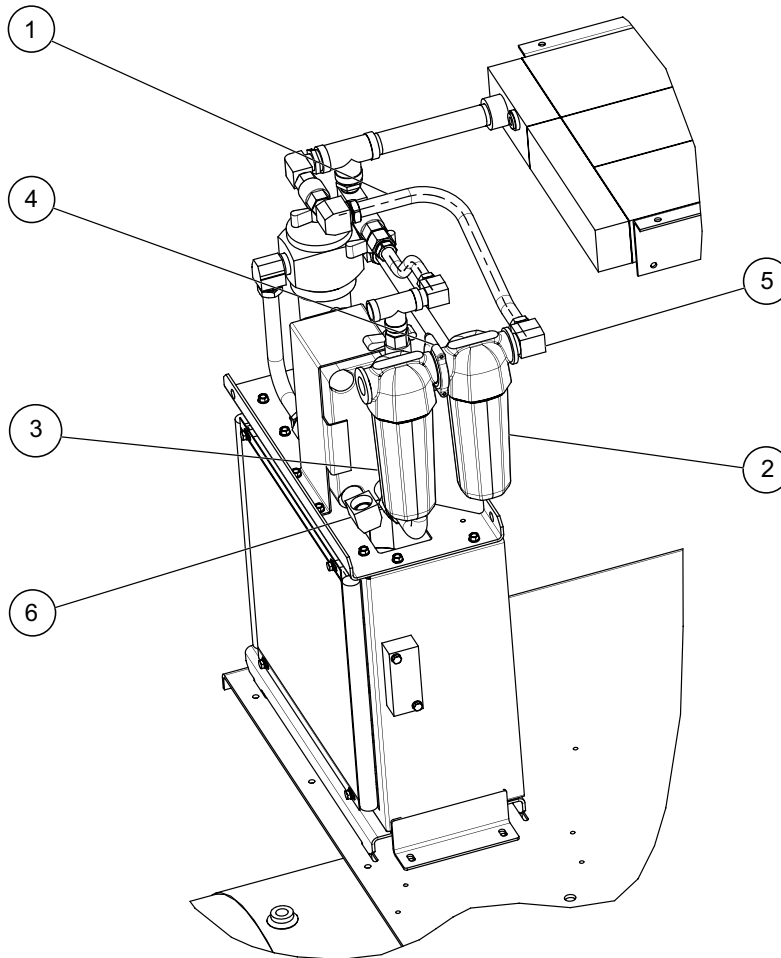
(Dwg. 22511745L3)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	22505135	TUBE ASSEMBLY, DRYER BYPASS (UP-SERIES 5-15 hp)	1
2	22505150	TUBE ASSEMBLY, DRYER BYPASS (UP-SERIES 5-15 hp)	1
3	54450176	VALVE, BALL 0.50 T-HANDLE	1
4	95031795	ELBOW, INVERTED FLARE 90° MALE 0.63 TUBE x 0.50 NPT	1
5	95083226	CONNECTOR, INVERTED FLARE 0.50 NPT x 0.63 TUBE	1
6	95083259	CONNECTOR, INVERTED FLARE 0.50 NPT x 0.75 TUBE	2
7	95497277	TEE, 300# 0.50 FNPT	1
8	95934279	NIPPLE, EXTRA STRONG 0.50 NPT x 1.13 LONG	1

## DRYER BYPASS (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Dryer Filters W/Bypass



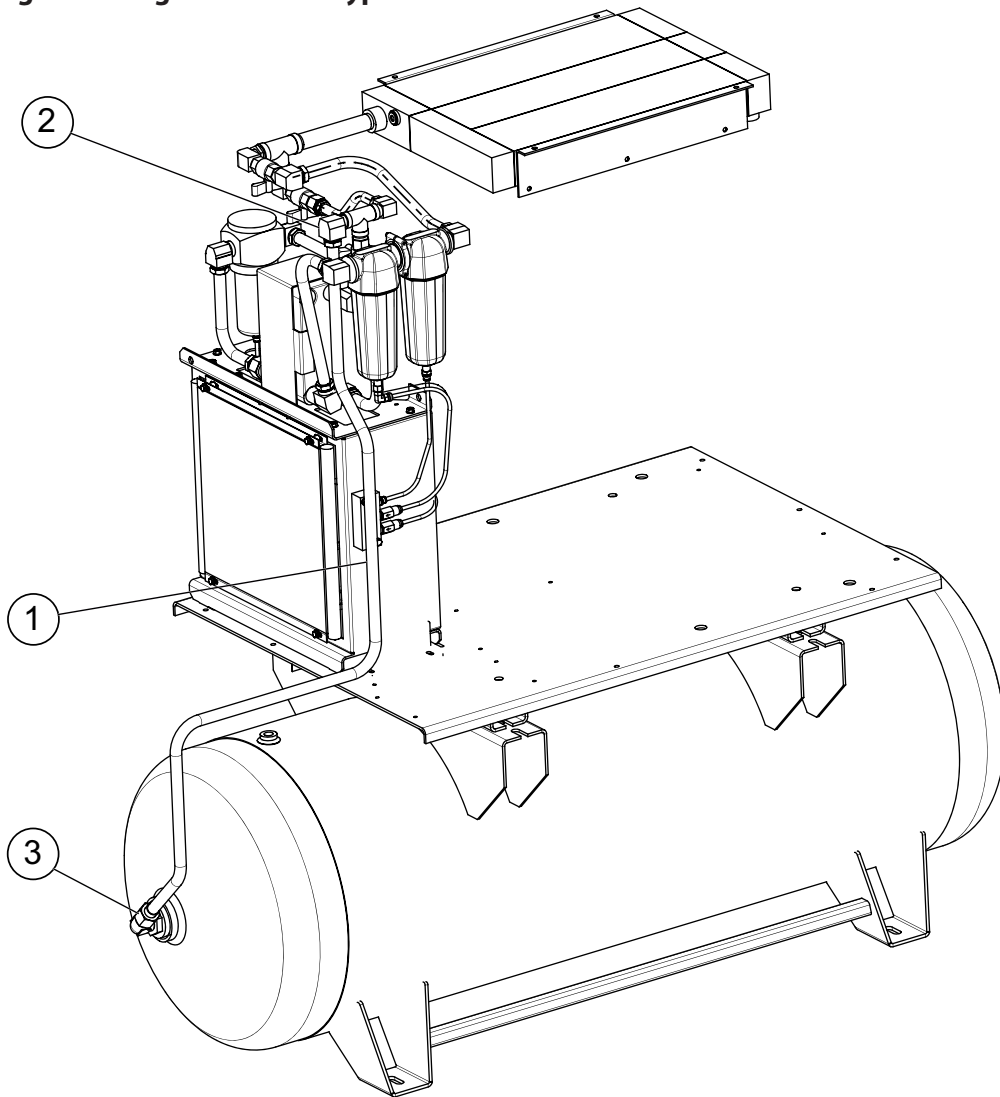
(Dwg. 22511745L4)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	22504468	TUBE ASSEMBLY, DRYER BYPASS (UP-SERIES 5-15 hp)	1
2 GENERAL PURPOSE FILTER	24233371	FILTER, (FA 75 IGX) (F-CAST SERIES) (ELEMENT 24241895) (60 Hz 5/7.5 hp 50 Hz 4/5.5 KW)	1
	85567121	FILTER, (DH F71 IGX) (ELIMINATOR SERIES) (ELEMENT 85565547) (60 Hz 5/7.5 hp 50 Hz 4/5.5 KW)	1
	24233454	FILTER, (FA 101 IGX) (F-CAST SERIES) (ELEMENT 24241952) (60 Hz 10/15 hp 50 Hz 7.5/11 KW)	1
	85567162	FILTER, (DH F108 IGX) (ELIMINATOR SERIES) (ELEMENT 85565588) (60 Hz 10/15 hp 50 Hz 7.5/11 KW)	1
3 HIGH EFFICIENCY FILTER	24233397	FILTER, (FA 75 IHX) (F-CAST SERIES) (ELEMENT 24241903) (60 Hz 5/7.5 hp 50 Hz 4/5.5 KW)	1
	85567139	FILTER, (DH F71 IHX) (ELIMINATOR SERIES) (ELEMENT 85565554) (60 Hz 5/7.5 hp 50 Hz 4/5.5 KW)	1
	24233470	FILTER, (FA 101 IHX) (F-CAST SERIES) (ELEMENT 24241960) (60 Hz 10/15 hp 50 Hz 7.5/11 KW)	1
	85567170	FILTER, (DH F108 IHX) (ELIMINATOR SERIES) (ELEMENT 85565596) (60 Hz 10/15 hp 50 Hz 7.5/11 KW)	1
4	24361925	CLAMP KIT FC75I-FC110I	1
5	95031761	ELBOW, INVERTED FLARE 90 DEG MALE .75 TUBE x .75 NPT	1
6	95031779	ELBOW, INVERTED FLARE 90 DEG MALE .75 TUBE x .50 NPT	1

## DRYER BYPASS (UP-SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Package Discharge Tube With Bypass



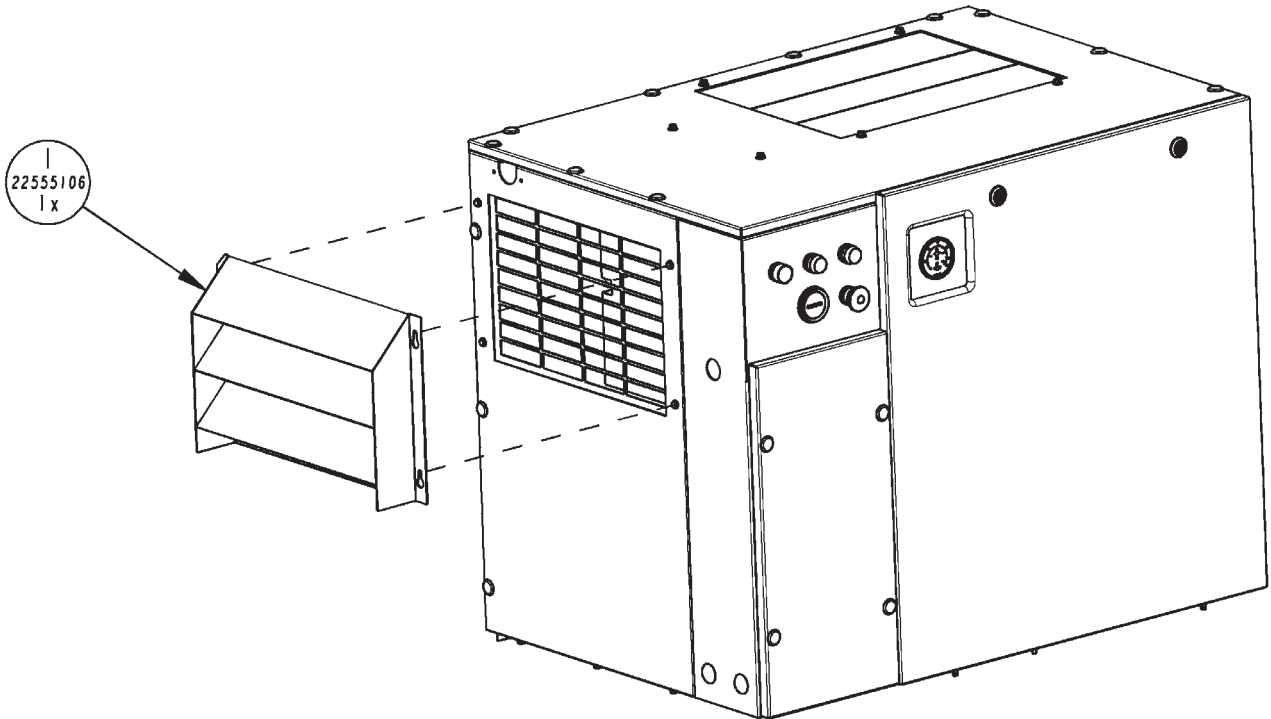
(Dwg. 22511745L9)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	47618853001	TUBE, ASSEMBLY, 120 GAL. (DRYER PACKAGE W/BYPASS)	1
	22506471	TUBE, ASSEMBLY, 272 LITRE (DRYER PACKAGE W/BYPASS)	1
	22771307	TUBE, ASSEMBLY, 272 LITRE (DRYER PACKAGE W/BYPASS) - ESA	1
	22506489	TUBE, ASSEMBLY, 500 LITRE (DRYER PACKAGE W/BYPASS)	1
	22771331	TUBE, ASSEMBLY, 500 LITRE (DRYER PACKAGE W/BYPASS) - ESA	1
	47618850001	TUBE, ASSEMBLY, 80 GAL. - 20 INCH DIA (DRYER PACKAGE W/BYPASS)	1
2	95031779	ELBOW, INVERTED FLARE 90° MALE 0.75 TUBE x 0.50 NPT	1
3	95937637	ELBOW, 80 GAL. - 24 INCH DIA (DRYER PACKAGE W/BYPASS), 120 GAL. (DRYER PACKAGE W/BYPASS)	1
	92176692	ELBOW, 272 LITRE (DRYER PACKAGE W/BYPASS), 272 LITRE (DRYER PACKAGE W/BYPASS) - ESA, 500 LITRE (DRYER PACKAGE W/BYPASS), 500 LITRE (DRYER PACKAGE W/BYPASS) - ESA	1
	32145088	ELBOW, 80 GAL. - 20 INCH DIA (DRYER PACKAGE W/BYPASS)	1

**OUTDOOR MODIFICATION OPTION ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Left Side Louvered Panel**



(Dwg. 22593628A2)

**PARTS LIST**

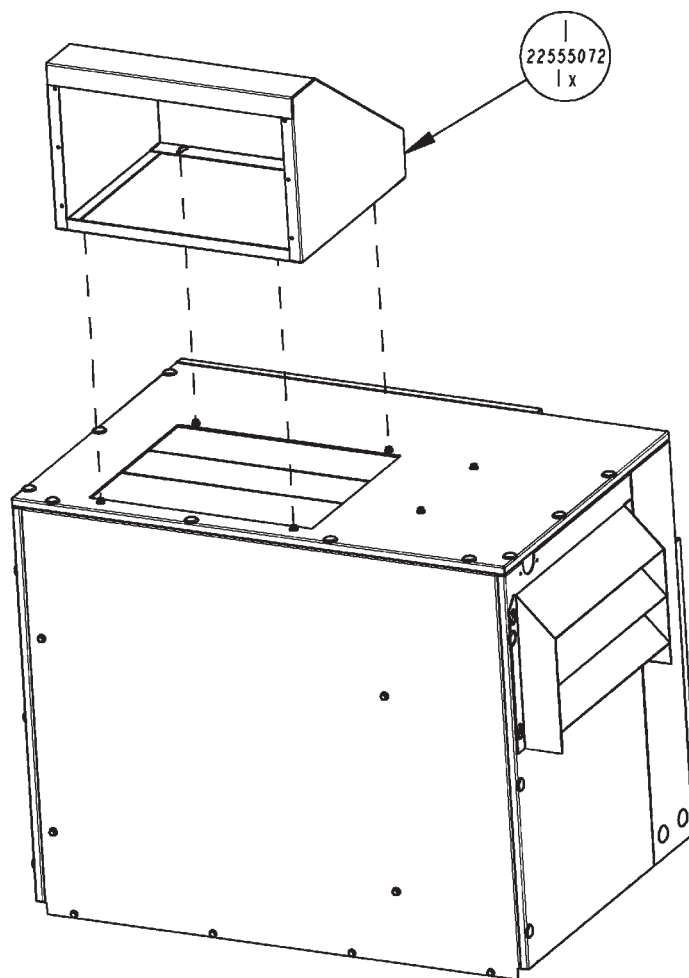
Item	Part No.	Description	Qty.
1	22555106	LOUVER, AIR INTAKE (OUTDOOR MODIFICATION)	1

**NOTE:**

**LOOSEN THE (4) SCREWS WHICH ATTACH THE PANEL FILTER TRAY TO THE LEFT END PANEL, SKIP KEY SLOT IN THE FLANGE OF THE LOUVERED COVER OVER THE SCREW AND RETIGHTEN THE SCREW**

# OUTDOOR MODIFICATION OPTION ASSEMBLY DRAWING AND PARTS LIST

## Assemble Cooler Hood to Top Panel



(Dwg. 22593628A3)

**PARTS LIST**

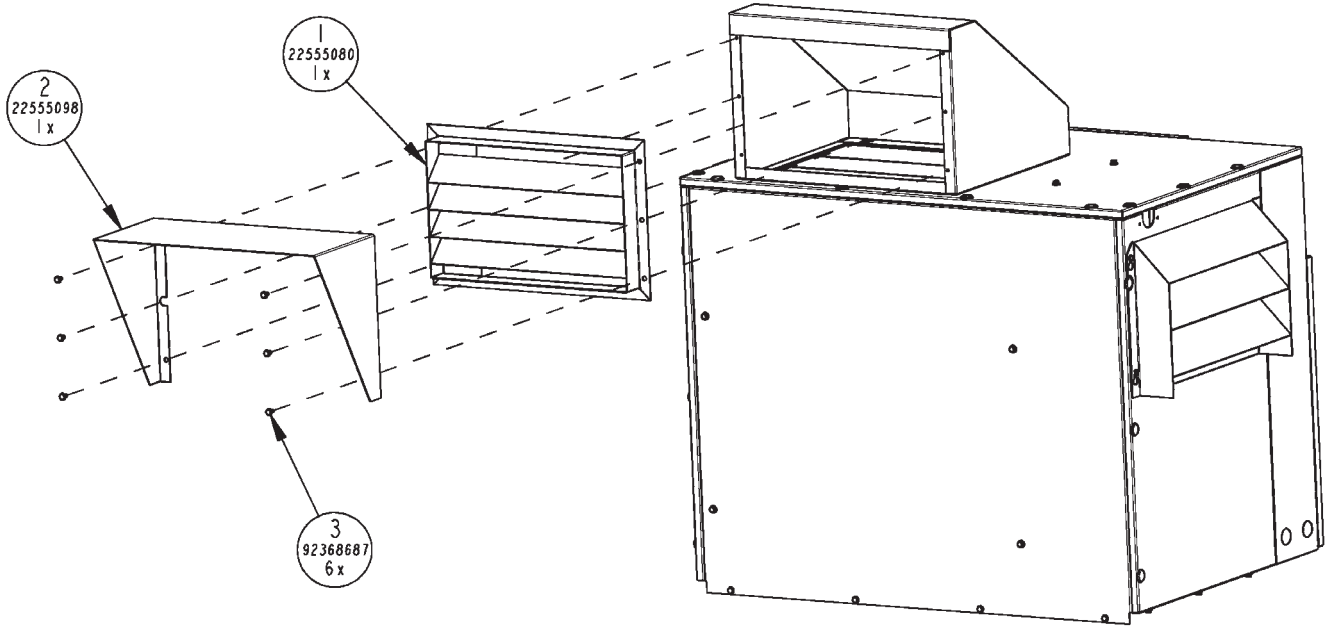
Item	Part No.	Description	Qty.
1	22555072	BOX COMPRESSOR EXHAUST (OUTDOOR MODIFICATION)	1

**NOTE:**

**LOOSEN THE (4) SCREWS WHICH ATTACH THE PANEL FILTER TRAY TO THE LEFT END PANEL, SKIP KEY SLOT IN THE FLANGE OF THE LOUVERED COVER OVER THE SCREW AND RETIGHTEN THE SCREW**

**OUTDOOR MODIFICATION OPTION ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Cooler Louver to Hood**



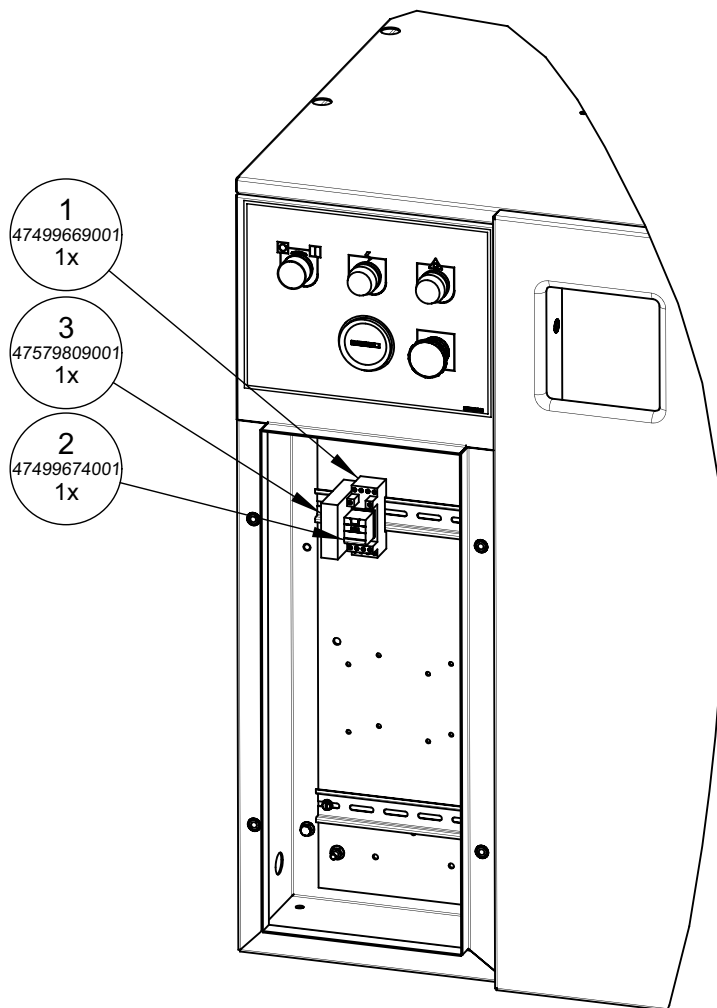
(Dwg. 22593628A4)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	22555080	LOUVER, AIR EXHAUST	1
2	22555098	HOOD, ODM EXHAUST	1
3	92368687	TAPTITE SCREW M6-1 x 12 LONG	6

## POWER OUT RESTART OPTION ASSEMBLY DRAWING AND PARTS LIST

Assemble Time Delay Relay, And Control Relay to Din Rail inside of Starter Panel



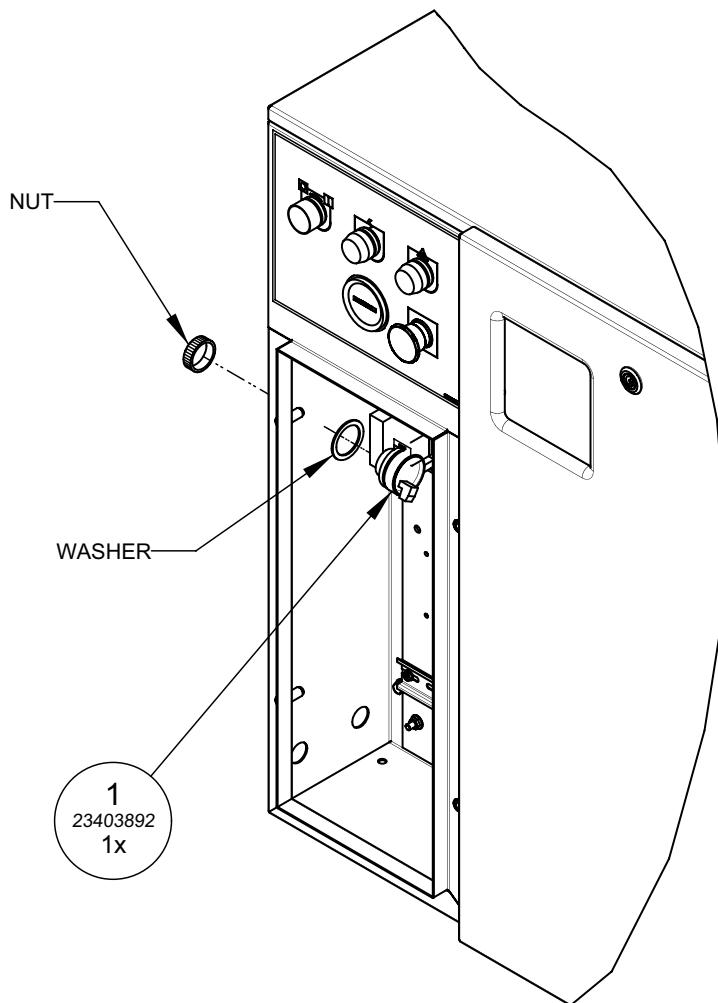
(Dwg. 22593636F2)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	47499669001	BASE, RELAY	1
2	47499674001	RELAY, 4P C/O 115V WITH SUPPRESSOR AND CLIP	1
3	47579809001	RELAY, TIMER MULTI-FUNCTION, ABB P/N CT-MFD.12	1

# POWER OUT RESTART OPTION ASSEMBLY DRAWING AND PARTS LIST

## Assemble Alarm to Starter Panel



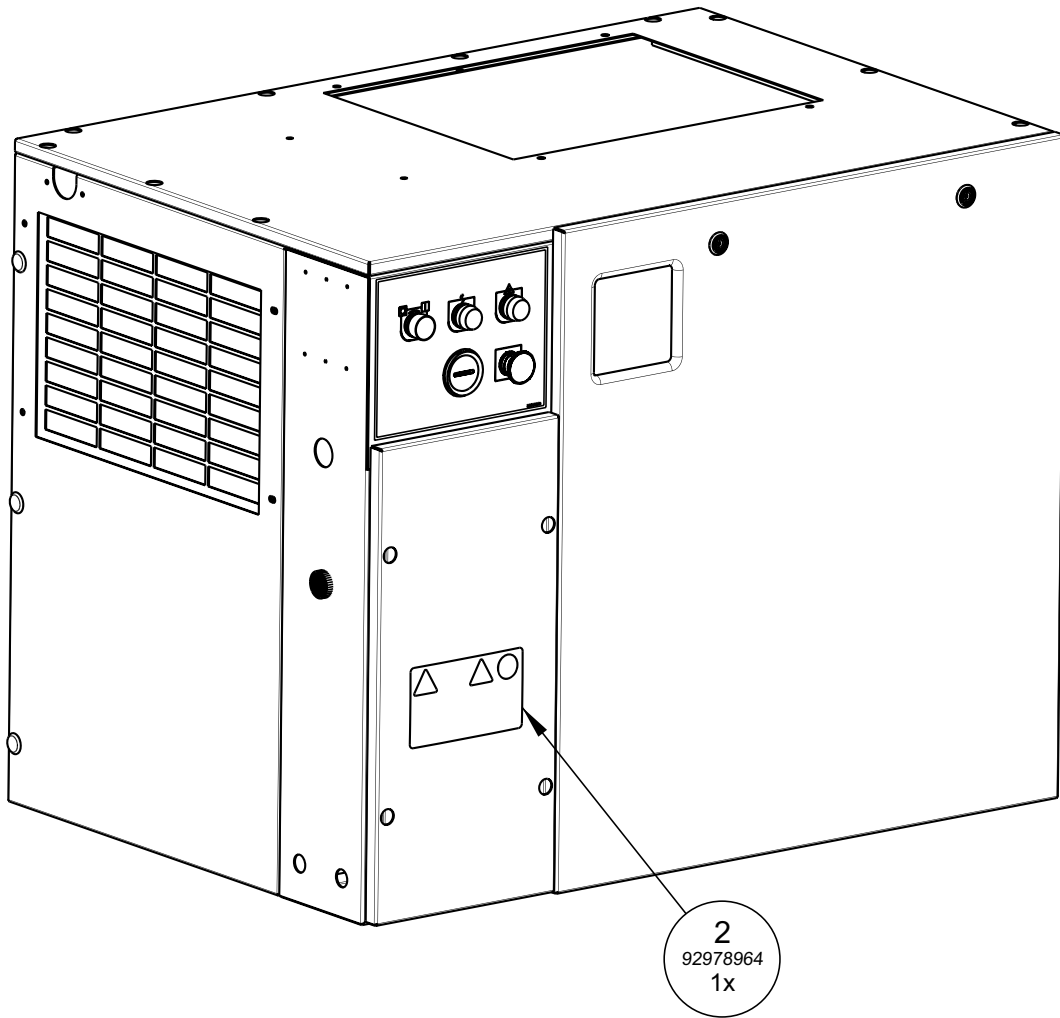
(Dwg. 22593636F3)

### PARTS LIST

Item	Part No.	Description	Qty.
1	23403892	ALARM, PANEL MOUNT 48-120 VAC	1

**POWER OUT RESTART OPTION ASSEMBLY DRAWING AND PARTS LIST**

**Assemble Power Out Restart Decal**



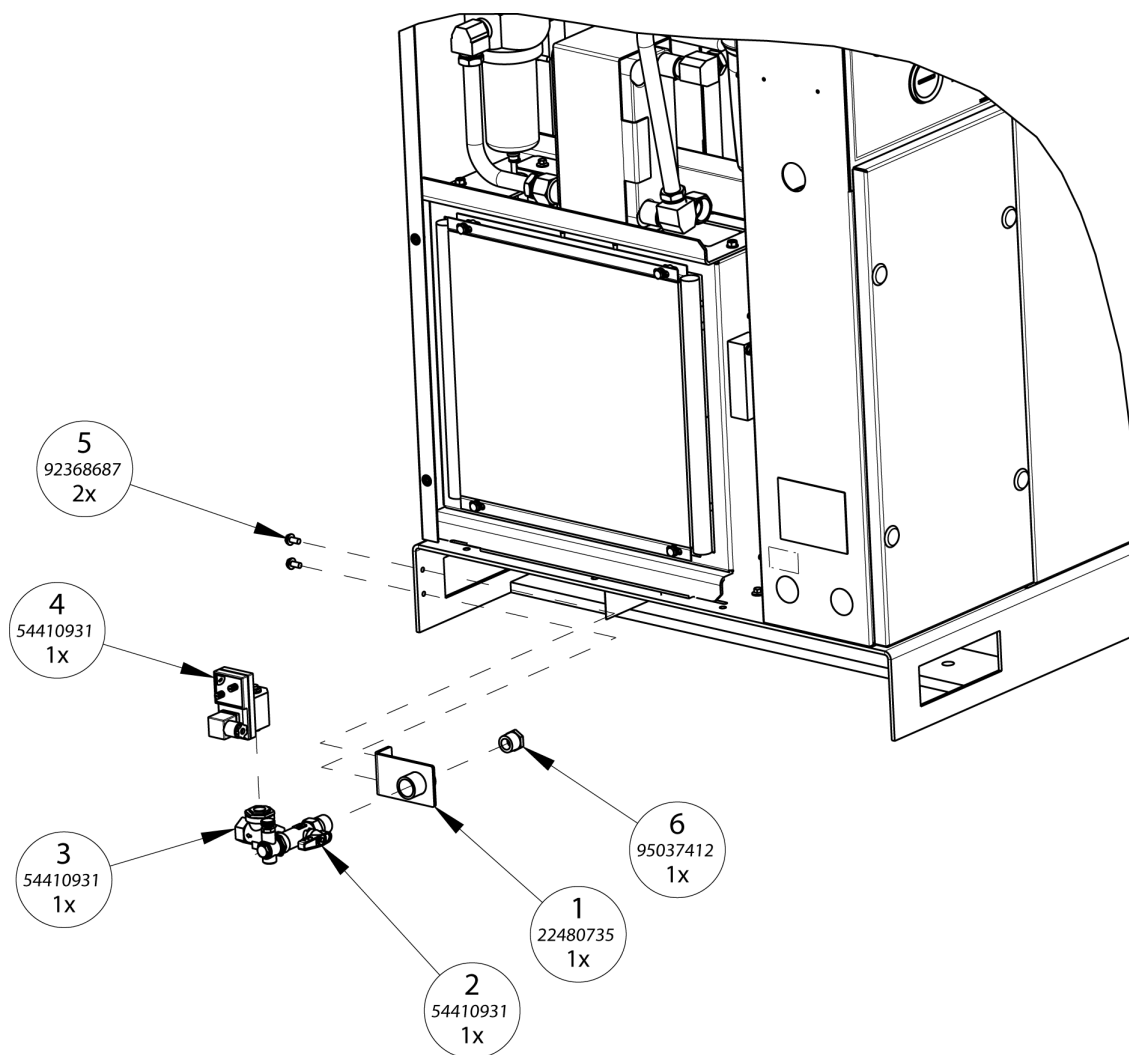
(Dwg. 22593636F4)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	35268788	CABLE TIE	10
2	92978964	DECAL, POWER OUT RESTART OPTION	1

## BASEPLATE W/DRYER EDV ASSEMBLY DRAWING AND PARTS LIST

### Assemble EDV Bracket and Valve to Base



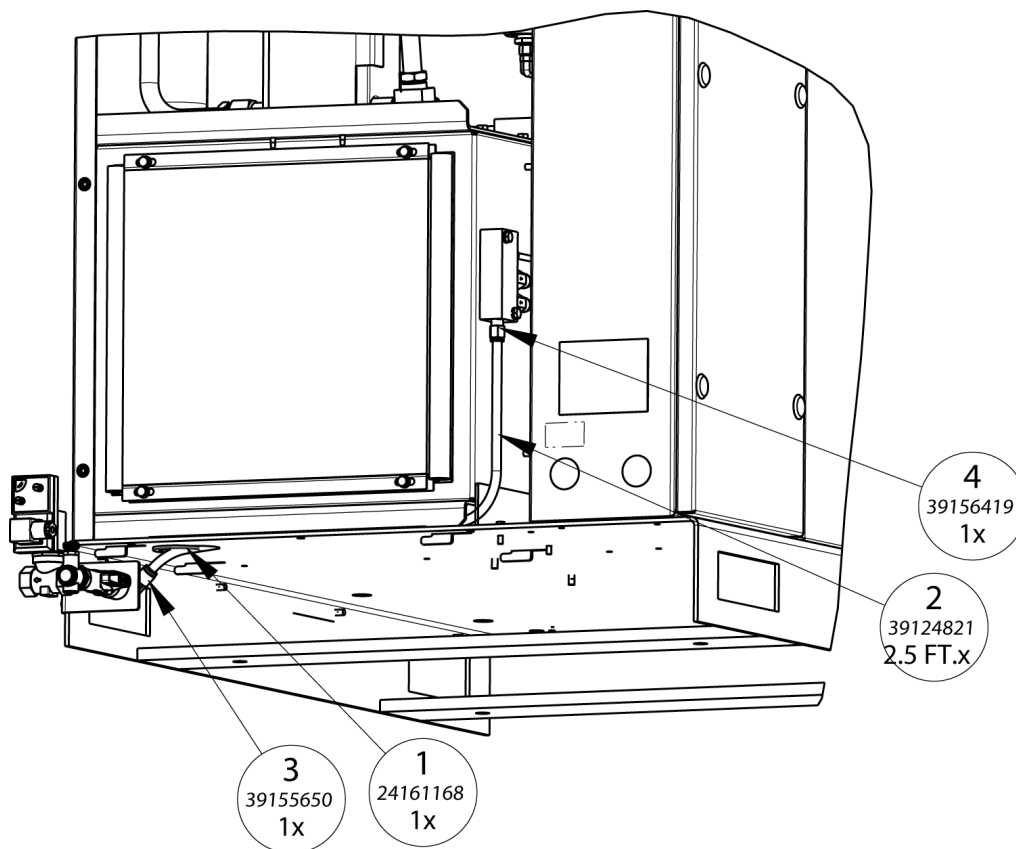
(Dwg. 22594063B2)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	22480735	BRACKET, EDV MOUNTING (UP-SERIES W/DRYER)	1
2	54410931	COMPONENT OF 54410931	1
3	54410931	SOLENOID VALVE BODY (COMPONENT OF 54410931)	1
4	54410931	SOLENOID VALVE CONTROLS (COMPONENT OF 54410931)	1
5	92368687	TAPTITE SCREW M6-1 x 12 LONG	2
6	95037412	BUSHING, REDUCER 0.50 NPT x 0.25 FNPT	1

## BASEPLATE W/DRYER EDV ASSEMBLY DRAWING AND PARTS LIST

Assemble Tube and Fittings from Dryer Condensate Manifold Block to EDV



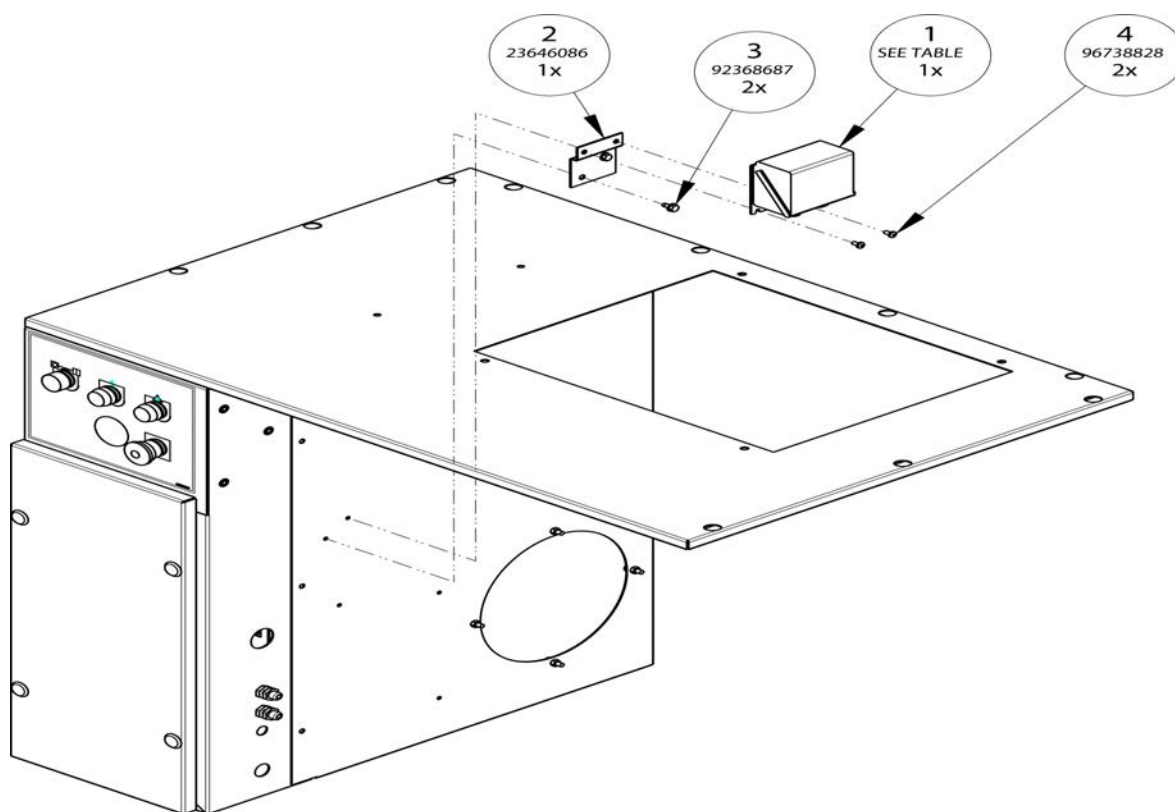
(Dwg. 22594063B3)

**PARTS LIST**

Item	Part No.	Description	Qty.
1	24161168	GROMMET, INSULATION FOR 1.75 INCH HOLE, 1.5 INCH ID, 2.0 INCH OD	1
2	39124821	TUBE, 0.375 INCH SYNIFLEX	2.5 FT
3	39155650	ELBOW, 0.25 NPT x 0.38 TUBING	1
4	39156419	CONNECTOR, 0.25 NPT x 0.38 TUBING	1

## CONTROLS (UP SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Pressure Switch to Blower Inlet Panel



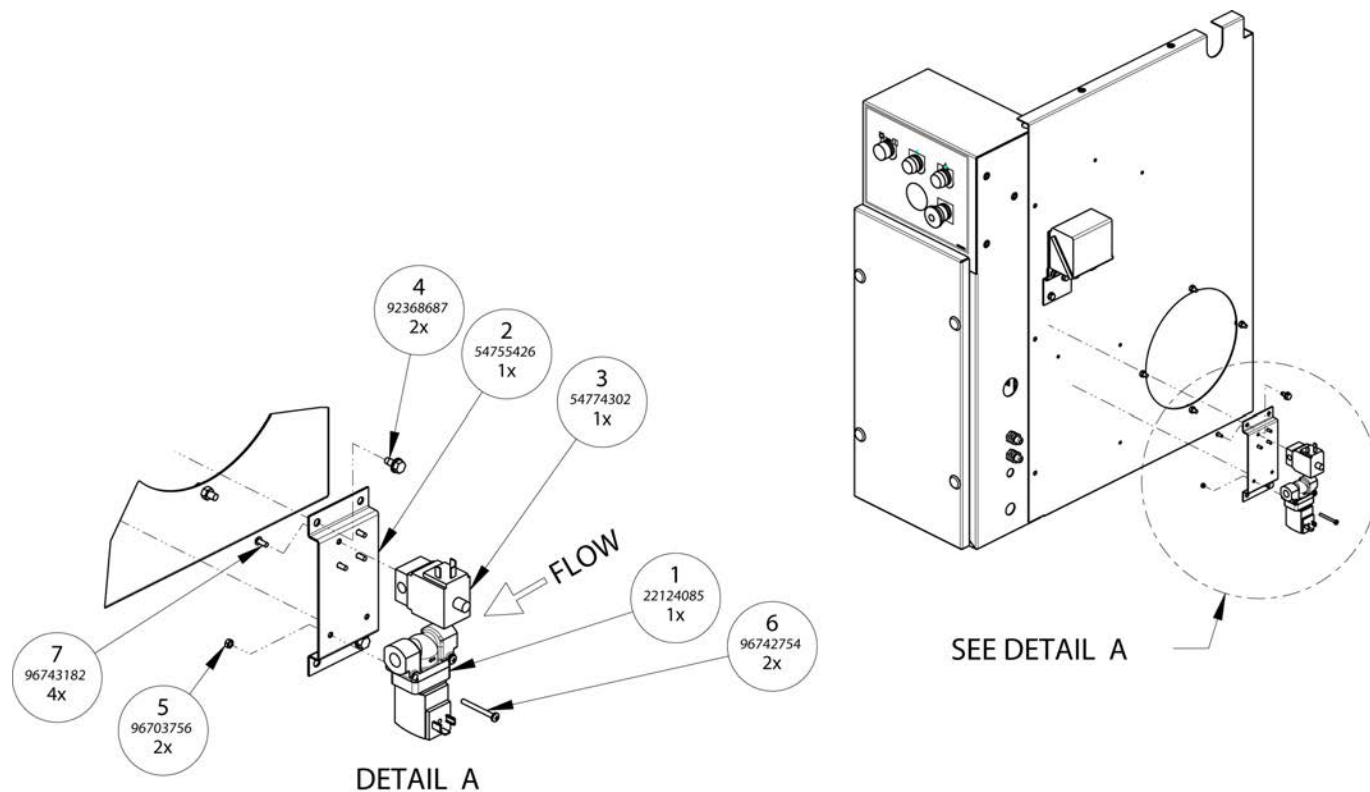
(Dwg. 24009276D2)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	23621600	SWITCH, PRESSURE 100-115psi	1
	23621634	SWITCH, PRESSURE 110-125psi	1
	23621618	SWITCH, PRESSURE 130-150psi	1
	23621626	SWITCH, PRESSURE 180-210psi	1
	23621592	SWITCH, PRESSURE 125-145 psig	1
2	23646086	BRACKET, PRESSURE SWITCH	1
3	92368687	TAPTITE SCREW M6-1 x 12 LONG	2
4	96738828	SCREW, MACHINE PAN HEAD TYPE H M5 x 10.00 LONG	2

## CONTROLS (UP SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Solenoid Valve, Blowdown Valve and Blowdown Bracket



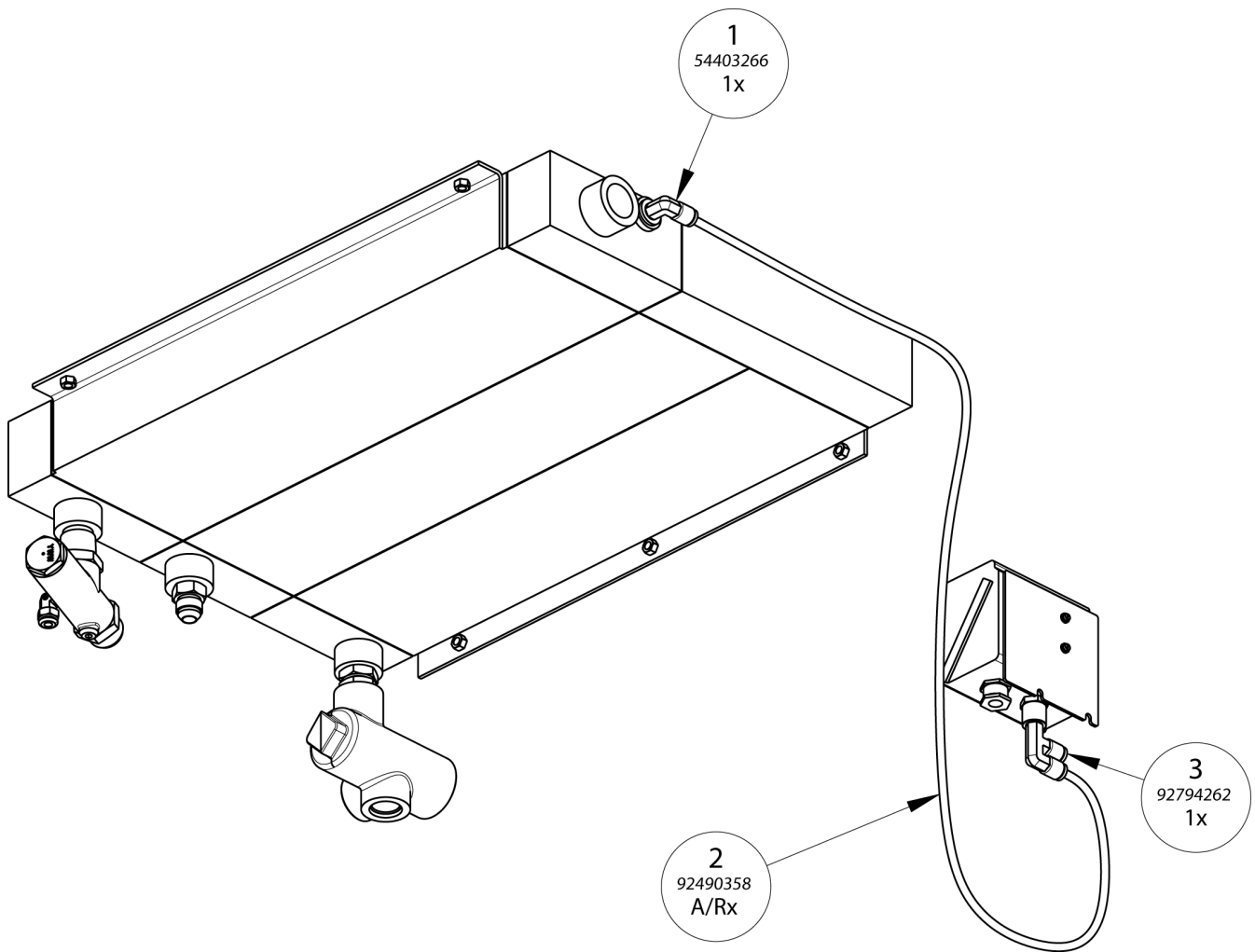
(Dwg. 24009276D3)

#### PARTS LIST

Item	Part No.	Description	Qty.
1	22124085	VALVE, SOLENOID - 0.25 NPT BLOWDOWN	1
2	54755426	BRACKET, SOLENOID/BLOWDOWN VALVE	1
3	54774302	VALVE, SOLENOID 0.125 NPT, 110 V 50/60 Hz	1
4	92368687	TAPTITE SCREW M6-1 x 12 LONG	2
5	96703756	NUT, HEX STYLE 1 COARSE THD M4-0.7	2
6	96742754	SCREW, MACHINE PAN HEAD TYPE H M4 x 40.00 LONG	2
7	96743182	SCREW, HEX SOCKET BUTTON HEAD M4 x 10.00 LONG	4

## CONTROLS (UP SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Nylon Tube - After-cooler to Pressure Switch



(Dwg. 24009276D4)

**PARTS LIST**

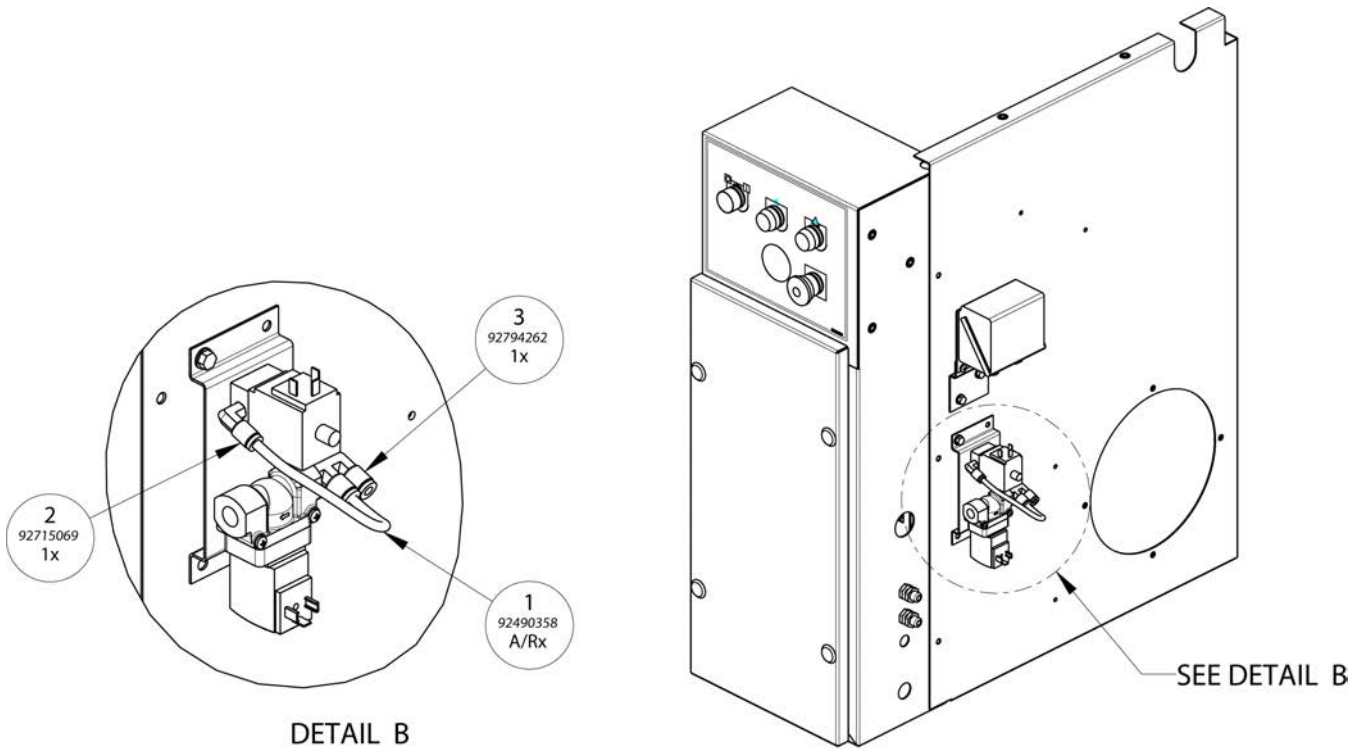
Item	Part No.	Description	Qty.
1	54403266	ELBOW, 0.25 BSPT x 6 mm TUBE	1
2	92490358	TUBE, NYLON 6 mm O/D BLUE	1
3	92794262	ELBOW, DOUBLE 0.25 BSPT x 6 mm TUBE	1

**NOTE:**

**ITS IS INTENDED THAT THIS LINE CREATES A "P" TRAP TO PREVENT ANY MOISTURE FROM GETTING TO THE PRESSURE SWITCH - DO NOT JOIN A SHORT / DIRECT ROUTE.**

## CONTROLS (UP SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Nylon Tube - Load Solenoid to Blowdown Solenoid



(Dwg. 24009276D5)

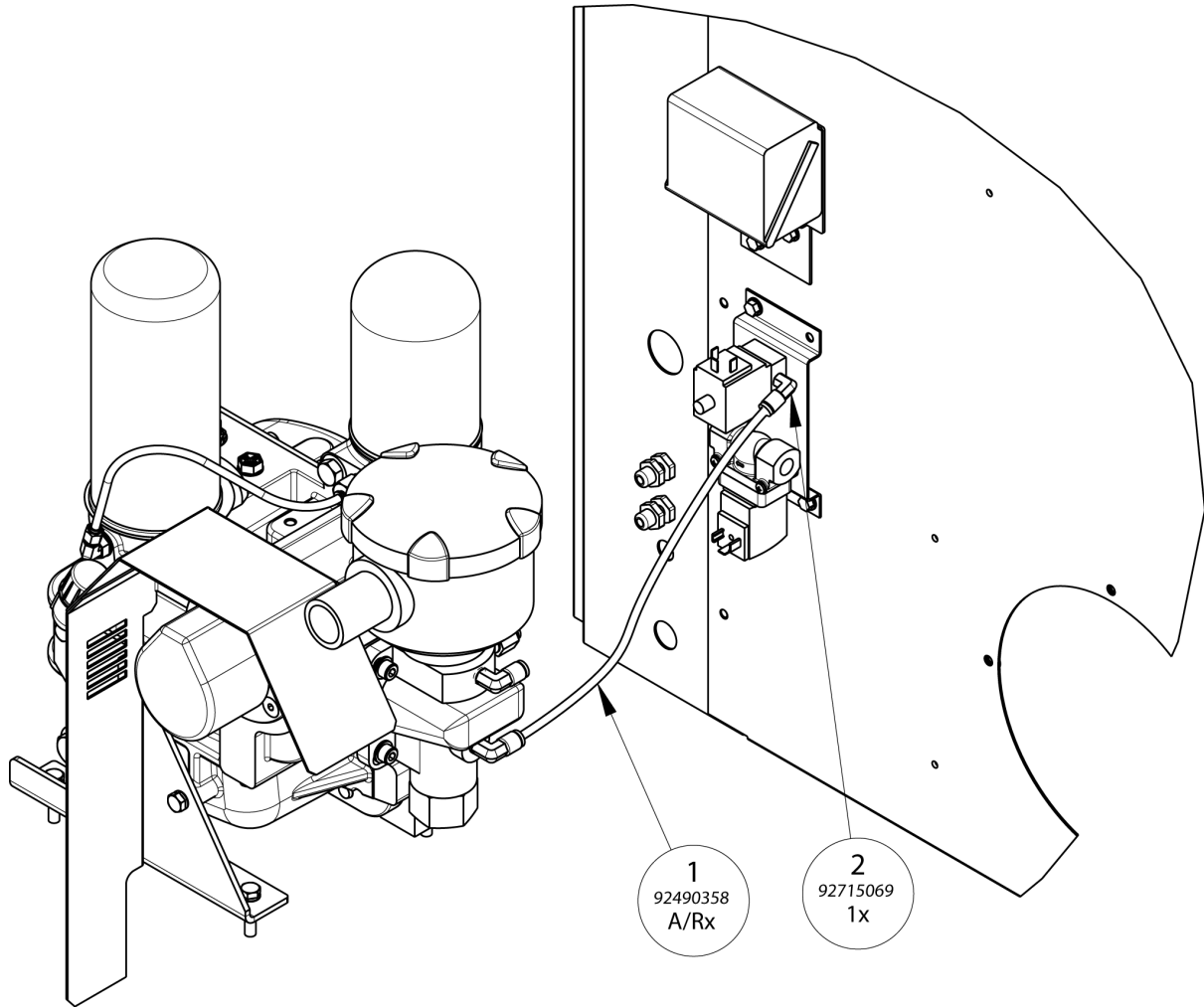
**PARTS LIST**

Item	Part No.	Description	Qty.
1	92490358	ELBOW, 0.25 BSPT x 6 mm TUBE	A/R
2	92715069	TUBE, NYLON 6 mm O/D BLUE	1
3	92794262	ELBOW, DOUBLE 0.25 BSPT x 6 mm TUBE	1

**A/R - AS REQUIRED.**

## CONTROLS (UP SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Nylon Tube - Load Solenoid to Inlet Valve



(Dwg. 24009276D6)

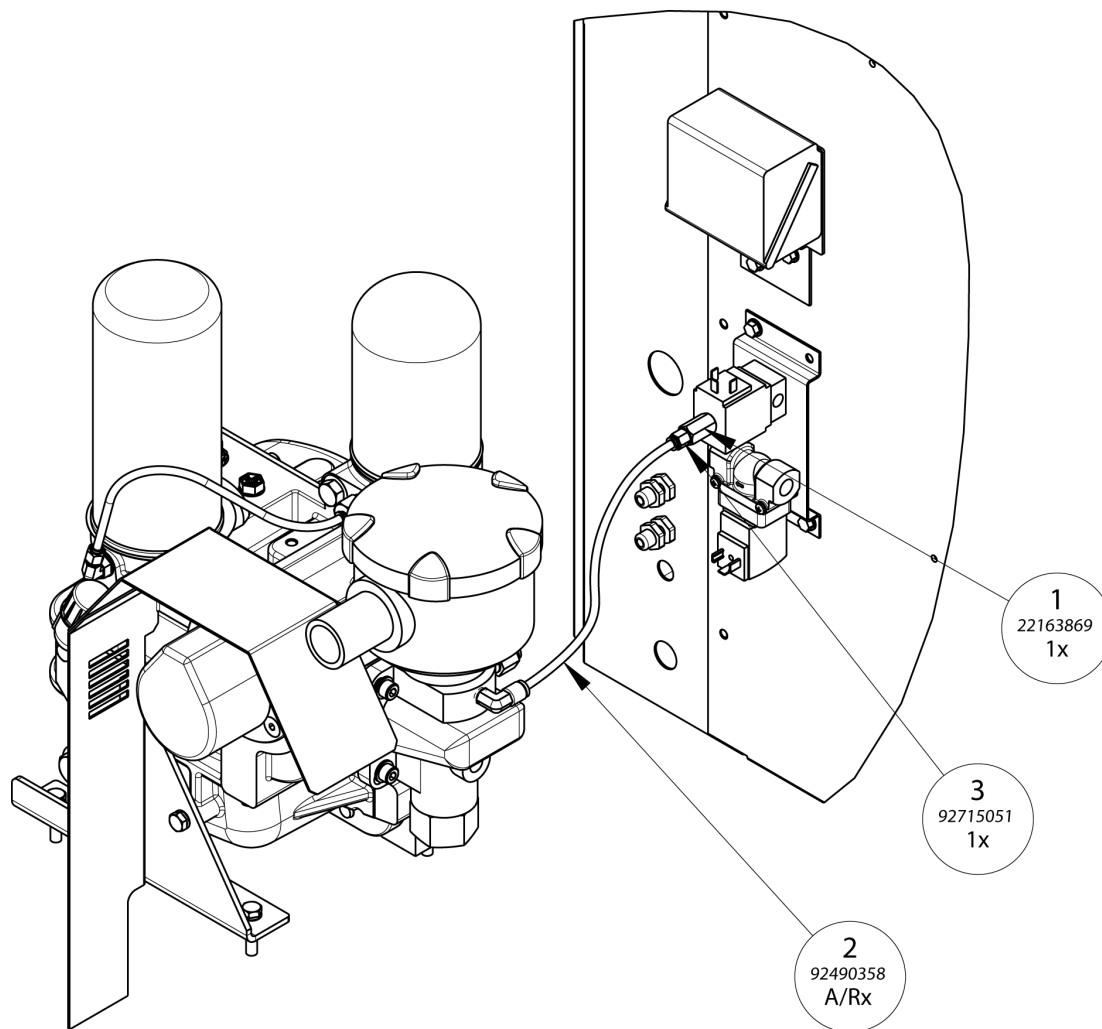
#### PARTS LIST

Item	Part No.	Description	Qty.
1	92490358	TUBE, NYLON 6 mm O/D BLUE	A/R
2	92715069	ELBOW, 0.13 NPT x 0.25 TUBE	1

A/R - AS REQUIRED.

## CONTROLS (UP SERIES) ASSEMBLY DRAWING AND PARTS LIST

**Assemble Nylon Tube - Load Solenoid Vent to Inlet Valve And Blowdown Solenoid to Inlet Valve**



(Dwg. 24009276D7)

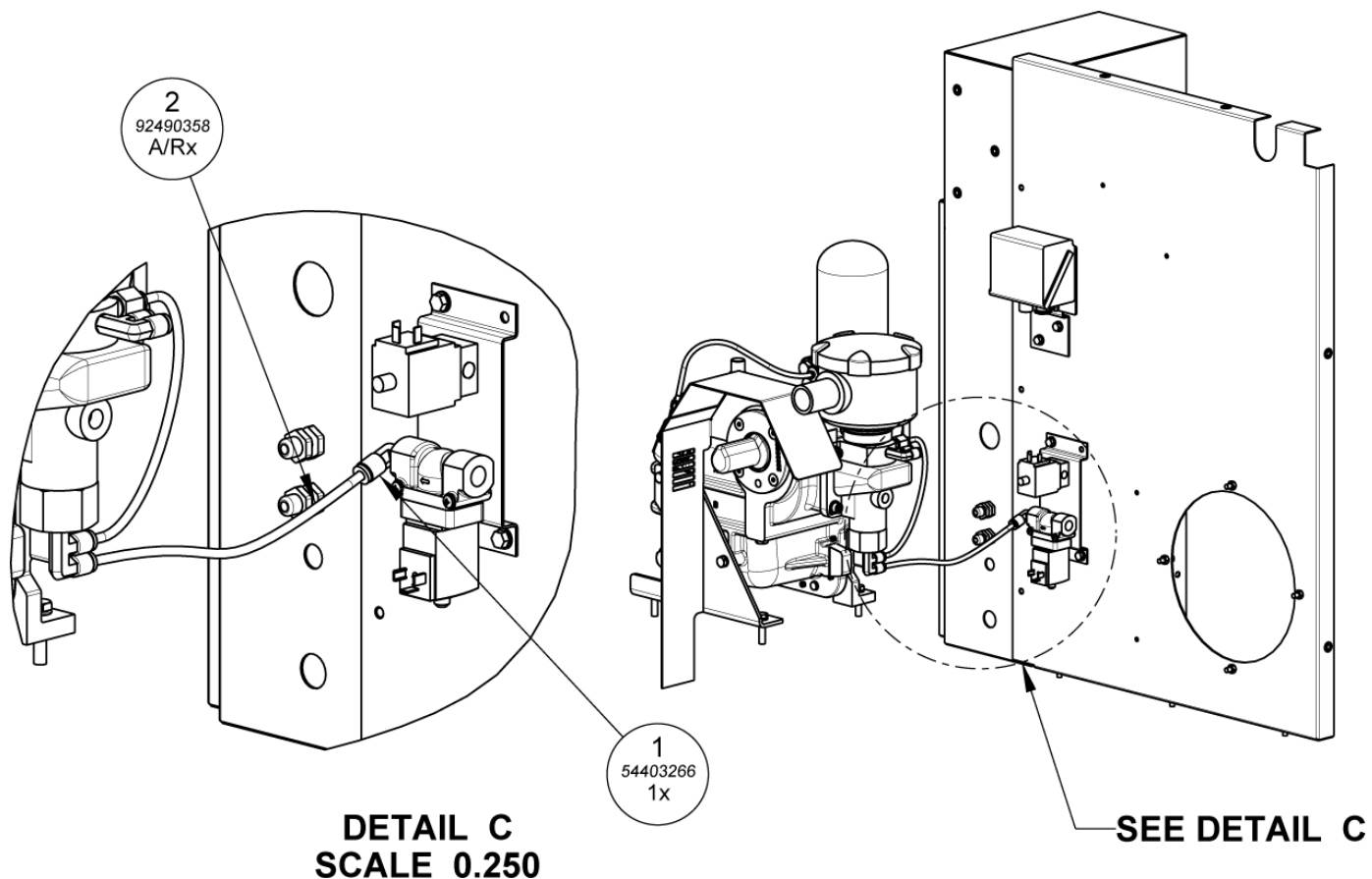
**PARTS LIST**

Item	Part No.	Description	Qty.
1	22163869	ADAPTOR, CONVERSION (0.125 BSPP x 0.125 NPT)	1
2	92490358	TUBE, NYLON 6 mm O/D BLUE	A/R
3	92715051	CONNECTOR, 0.125 BSPT x 6 mm TUBE	1

**A/R - AS REQUIRED.**

## CONTROLS (UP SERIES) ASSEMBLY DRAWING AND PARTS LIST

Assemble Nylon Tube - Blowdown Solenoid to Inlet Valve And Inlet Valve to Diffuser



(Dwg. 24009276D8)

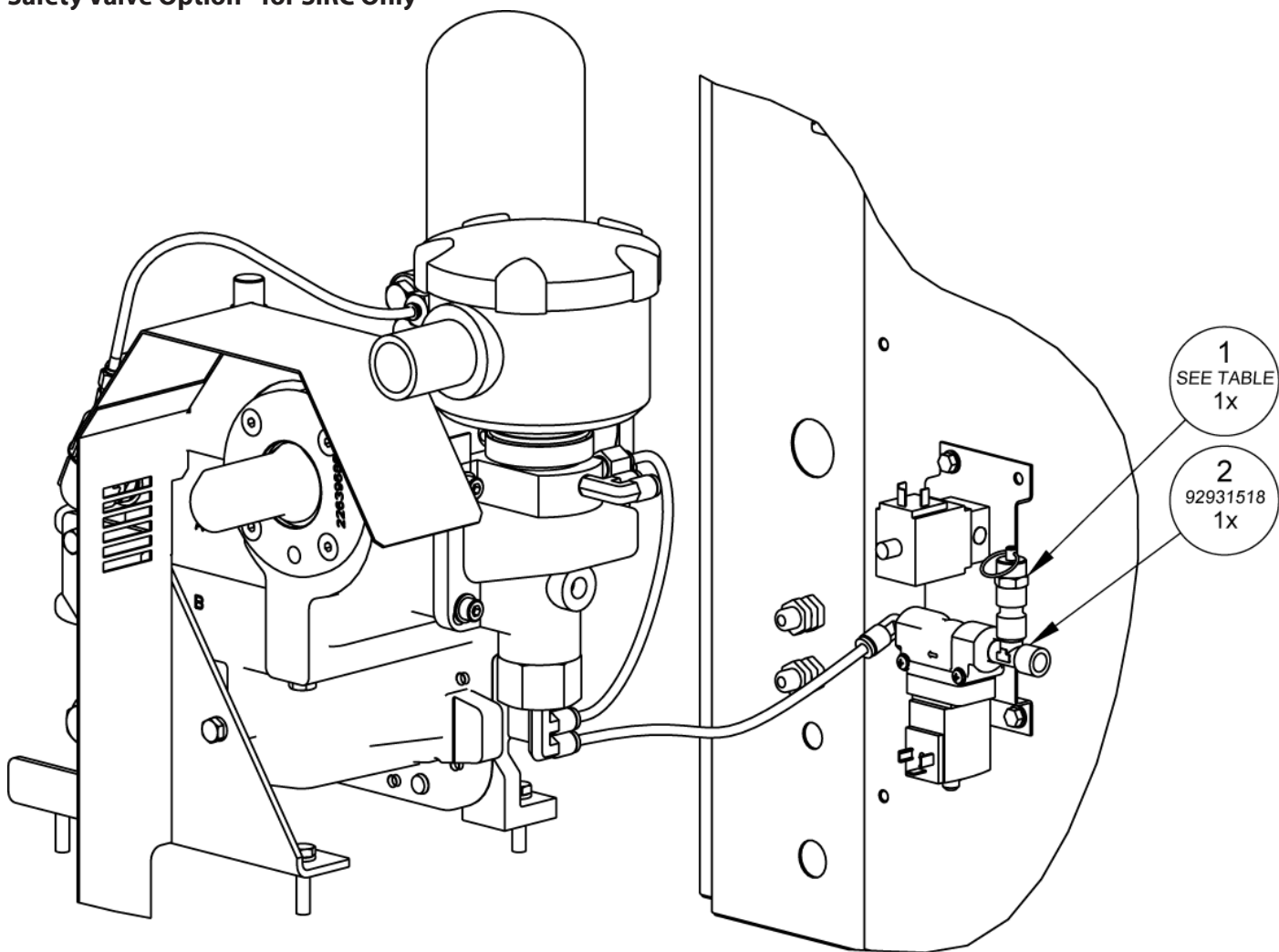
**PARTS LIST**

Item	Part No.	Description	Qty.
1	54403266	ELBOW, 0.25 BSPT x 6 mm TUBE	1
2	92490358	TUBE, NYLON 6 mm O/D BLUE	A/R

**A/R - AS REQUIRED.**

## CONTROLS (UP SERIES) ASSEMBLY DRAWING AND PARTS LIST

**Safety Valve Option - for SIRC Only**



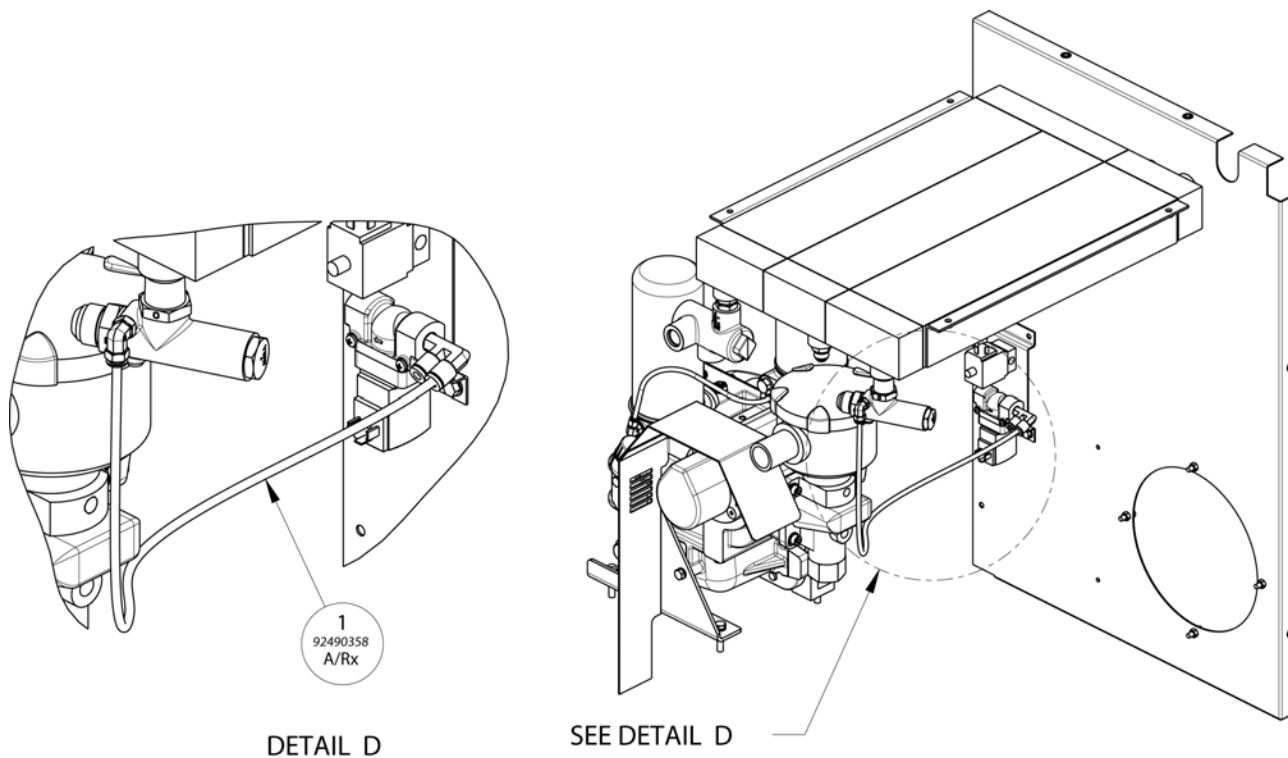
**Dwg. 24009276D9**

**PARTS LIST**

Item	Part No.	Description	Qty.
1	99332009	VALVE, PRESSURE SAFETY 8.9 BAR	1
	18990762	VALVE, PRESSURE SAFETY 11 BAR	1
	22431787	VALVE, PRESSURE SAFETY 16 BAR	1
2	92931518	TEE, MALE RUN 1/4 IN. BSPT	1

## CONTROLS (UP SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Nylon Tube - MPCV to Blowdown Solenoid



(Dwg. 24009276D10)

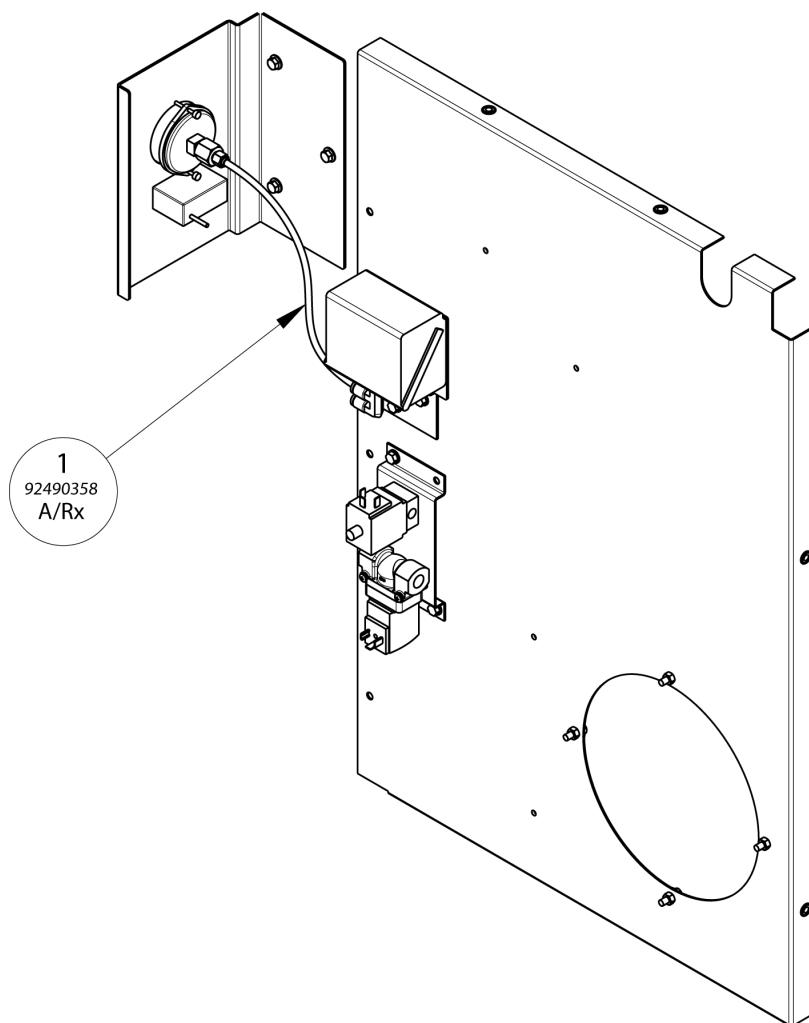
**PARTS LIST**

Item	Part No.	Description	Qty.
1	92490358	TUBE, NYLON 6 mm O/D BLUE	A/R

**A/R - AS REQUIRED.**

# CONTROLS (UP SERIES) ASSEMBLY DRAWING AND PARTS LIST

## Assemble Nylon Tube - Pressure Switch to Gauge



(Dwg. 24009276D11)

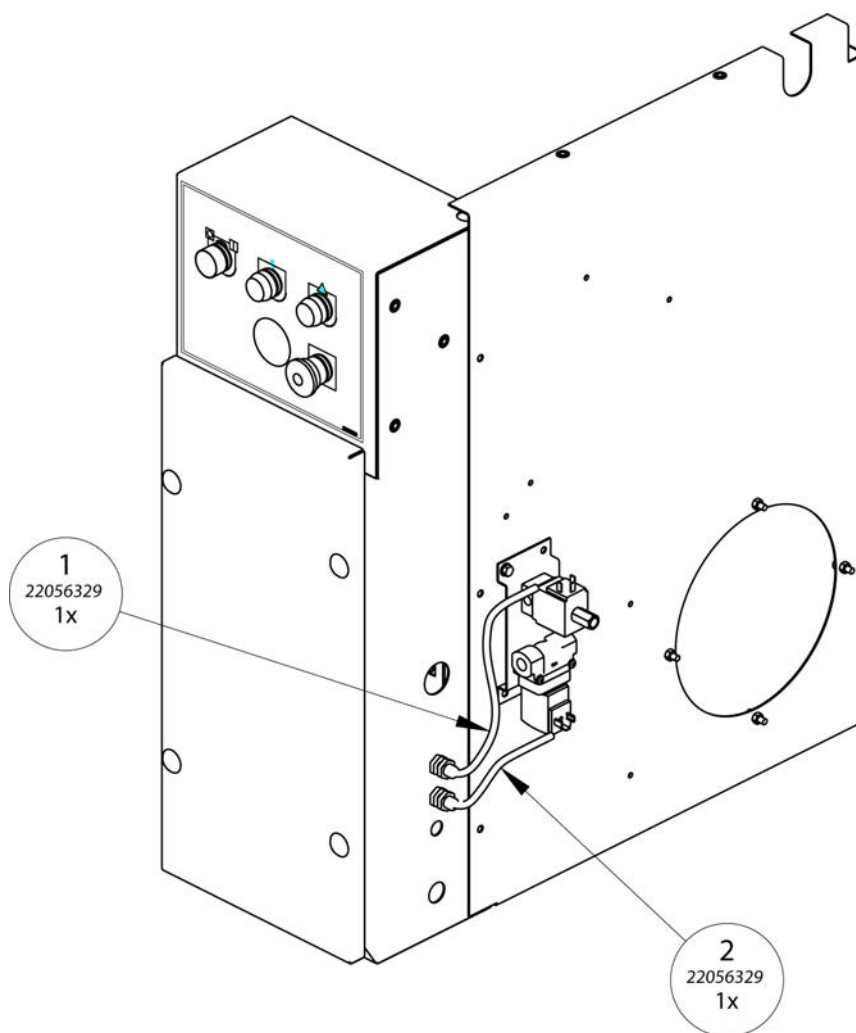
**PARTS LIST**

Item	Part No.	Description	Qty.
1	92490358	TUBE, NYLON 6 mm O/D BLUE	A/R

**A/R - AS REQUIRED.**

## CONTROLS (UP SERIES) ASSEMBLY DRAWING AND PARTS LIST

### Assemble Solenoid and Blowdown Cable to Starter Box



(Dwg. 24009276D12)

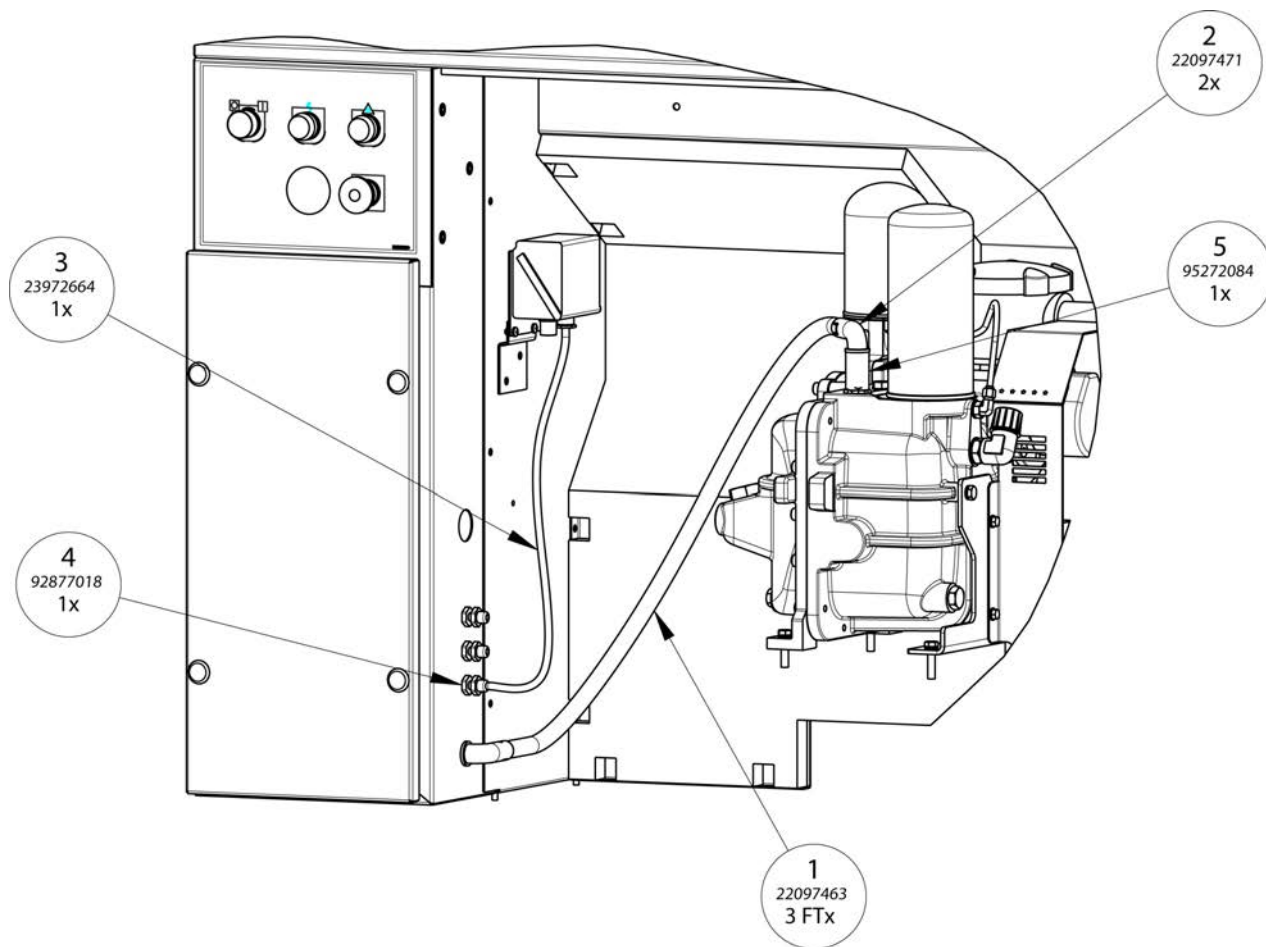
**PARTS LIST**

Item	Part No.	Description	Qty.
1	22056329	ASSEMBLY, CABLE (SOLENOID VALVE)	1
2	22056329	ASSEMBLY, CABLE BLOWDOWN	1

**A/R - AS REQUIRED.**

## CONTROLS (UP SERIES) ASSEMBLY DRAWING AND PARTS LIST

assemble Pressure Switch Cable and Conduit for High Air Temperature Switch



(Dwg. 24009276D13

### PARTS LIST

Item	Part No.	Description	Qty.
1	22097463	CONDUIT, 0.375 INCH HEAVY	3 FT
2	22097471	ELBOW, 90° CONDUIT (0.50 NPT x 0.375 CONDUIT)	2
3	23972664	ASSEMBLY, PRESSURE SWITCH CABLE	1
4	92877018	GLAND, CABLE (LIQUID TIGHT FITTING)	1
5	95272084	COUPLING, CONDUIT 0.50	1

**RECOMMENDED PARTS****MAINTENANCE KIT (NO COOLANT)**

<b>CCN</b>	<b>DESCRIPTION</b>
24178220	KIT – MAINTENANCE 2000 HR (NON-TAS)
24178238	KIT – MAINTENANCE 2000 HR, 10-15 hp/7.5-11 kW (TAS)
24178246	KIT – MAINTENANCE 2000 HR, 5-7.5 hp/4-5.5 kW (TAS)

**OPTION KITS**

<b>CCN</b>	<b>DESCRIPTION</b>
54579248	VALVE, ELECTRIC DRAIN
23405061	KIT – PORO
42594291	KIT – OUTDOOR MODIFICATION

**REPAIR KITS**

<b>CCN</b>	<b>DESCRIPTION</b>
23846264	KIT – INLET VALVE REPAIR
23134968	KIT – MPCV REBUILD
23157241	KIT – THERMAL VALVE FIELD RETROFIT

**SPARE PARTS**

<b>CCN</b>	<b>DESCRIPTION</b>
88171913	ELEMENT, INLET AIR FILTER
39329602	FILTER, COOLANT
24121212	ELEMENT, SEPARATOR
38342028	FILTER, PANEL (4-PACK)
22441489	PUSHBUTTON, RESET
22384952	BUTTON, EMERGENCY STOP
22384929	INDICATOR (GREEN)
22480313	FUSE, DRYER, 60 HZ
22480305	FUSE, DRYER, 50 HZ
81291601	FUSE, 0.5 A
22177307	FUSE, 0.75 A
39193289	FUSE, 1.0 A (TIME DELAY)
32203176	FUSE, 1.0 A (NON-TIME DELAY)
22177299	FUSE, 1.5 A
22282024	VALVE, THERMAL CONTROL
23012313	ELEMENT, CONTROL AIR FILTER
38450334	KIT, DRAIN
38450367	KIT, O-RING

## RECOMMENDED PARTS

### SAFETY VALVES

CCN	DESCRIPTION
22401590	VALVE, SAFETY – 16 BAR (PED)
22431761	VALVE, SAFETY – 8.8 BAR – AP
22431779	VALVE, SAFETY – 11 BAR – AP
22431787	VALVE, SAFETY – 16 BAR – AP
22378665	VALVE, SAFETY – 232 PSI (ASME)

### CONTROL

CCN	DESCRIPTION
54774302	VALVE, SOLENOID (LOAD)
22124085	VALVE, SOLENOID (BLOW DOWN)
22294037	RELAY, TIME DELAY

### COOLANT CHECK

CCN	DESCRIPTION
38035531	KIT – COOLANT SAMPLE CHECK - NORTH AMERICA, SOUTH AMERICA, INDIA
88176367	KIT – COOLANT SAMPLE CHECK - EUROPE, MIDDLE EAST AND AFRICA
91002550	KIT – COOLANT SAMPLE CHECK - ASIA PACIFIC
15478415	KIT – COOLANT SAMPLE CHECK - CHINA/SIRC

### COOLANT

SIZE	ULTRA	ULTRA EL	ULTRA FG (FOOD GRADE)
1 LITER	92837095	24161119	---
5 LITER	92692284	24061608	23973969
15 LITER	---	24061624	---
20 LITER	38459582	---	23973977



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