



Experience, Trust, Service

BLASTMASTER® 1600 CFM AIR DRYER



BUILT MARCO TOUGH
MARCO MANUFACTURED

PART NUMBERS AND SCHEMATICS GUIDE

Company Profile

Since 1944, Marco has developed a strong tradition of providing innovative and reliable products and services to the surface preparation and protective coatings industries. We are the world's premier provider of Abrasives, Blasting Equipment, Coating and Painting Equipment, Engineered Systems, Rental Equipment, Safety Equipment, Service, and Repair.

Through innovative designs and a total commitment to quality, Marco manufactures products that increase production rates, create a safer workplace, and reduce maintenance costs. Marco's industry experience, manufacturing capabilities, legendary customer service, product availability, logistics services, and technology leadership is your assurance that we deliver high quality products and services, providing the best value to you, our customer.

The Marco Difference

- **Industry Experience** – With Marco on your team, you have access to expertise which can only come from over 65 years of industry leadership. We have organized our engineering department, production specialists, customer operations, and safety support into a “Center of Competence.” As a Marco customer, you have access to hundreds of years of cumulative experience related to your operations.
- **Manufacturing Excellence** – Marco is a U.S. based, ISO 9001:2008 certified manufacturer of equipment for the Surface Preparation and Protective Coatings industries. Marco's engineers benchmark the industry to ensure that we design and manufacture superior products that set the “Gold Standard” for performance, safety, and quality.
- **Legendary Customer Service** – Marco's legendary customer service team is staffed by friendly, highly-trained individuals who are focused on providing the highest level of product support, order accuracy, and customer satisfaction.
- **Product Availability** – We stock over 10,000 SKU's and have over 45 shipping locations to serve North American and International markets for all major brands of blasting and painting equipment. As the largest provider of surface preparation and protective coatings equipment in the world, our inventory levels and product availability are unmatched.
- **Logistics Services** – Marco's in-house logistics team is dedicated to moving your shipment anywhere in the world. We move over 14,000 truckloads every year, allowing you to save on freight costs by leveraging our buying power. Lower your process costs with a single invoice, which includes product and freight.
- **Technology Leadership** – Our website provides: Operator's Manuals, Part Numbers and Schematics Guides, MSDS information, and Features, Advantages, and Benefits Guides, providing access to information 24/7. Our Extranet application allows you to receive quotes and place orders online. Our Intranet maintains a complete record of your purchase history to assist with ongoing support of your existing equipment and future purchasing decisions.

Vision Statement

Marco is the world's premier provider of Abrasives, Blasting Equipment, Coating and Painting Equipment, Engineered Systems, Rental Equipment, Safety Equipment, Service, and Repair.

Mission Statement

Marco provides strong leadership and innovation to the surface preparation and protective coatings industries. We dedicate our efforts to the continuous improvement of our products, services, processes, people, and most importantly, the quality of our customer's experience.

Quality Policy

Marco is committed to providing superior quality in the design, manufacturing, distribution, rental, service, and repair of our products. Our ISO 9001:2008 certification extends throughout all operations in all locations. Continuous improvement of our processes and supply chain Integration comprise the core of our business strategy for delivering exceptional quality and value in all Marco products and services.

Management Philosophy

We are a company dedicated to the success of every customer and associate. We discuss, debate, challenge, measure, and test our ideas. We will be boundless and limitless in our passion to improve. Through sound leadership and dedicated associates, we will ensure a long term, profitable future for Marco, our associates, customers, and suppliers.

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PART NUMBERS

Part Numbers	BLASTMASTER® 1600 CFM AIR DRYER
10101670	Blastmaster® 1600 CFM Air Dryer – Pneumatic
10101671	Blastmaster® 1600 CFM Air Dryer – Electric

OPERATIONAL REQUIREMENTS

Figure 1a: Blastmaster® 1600 CFM Air Dryer – Pneumatic



Overall Dimensions:

Height: 88"
Width: 72"
Depth: 35"

Figure 1b: Blastmaster® 1600 CFM Air Dryer – Electric



Overall Dimensions:

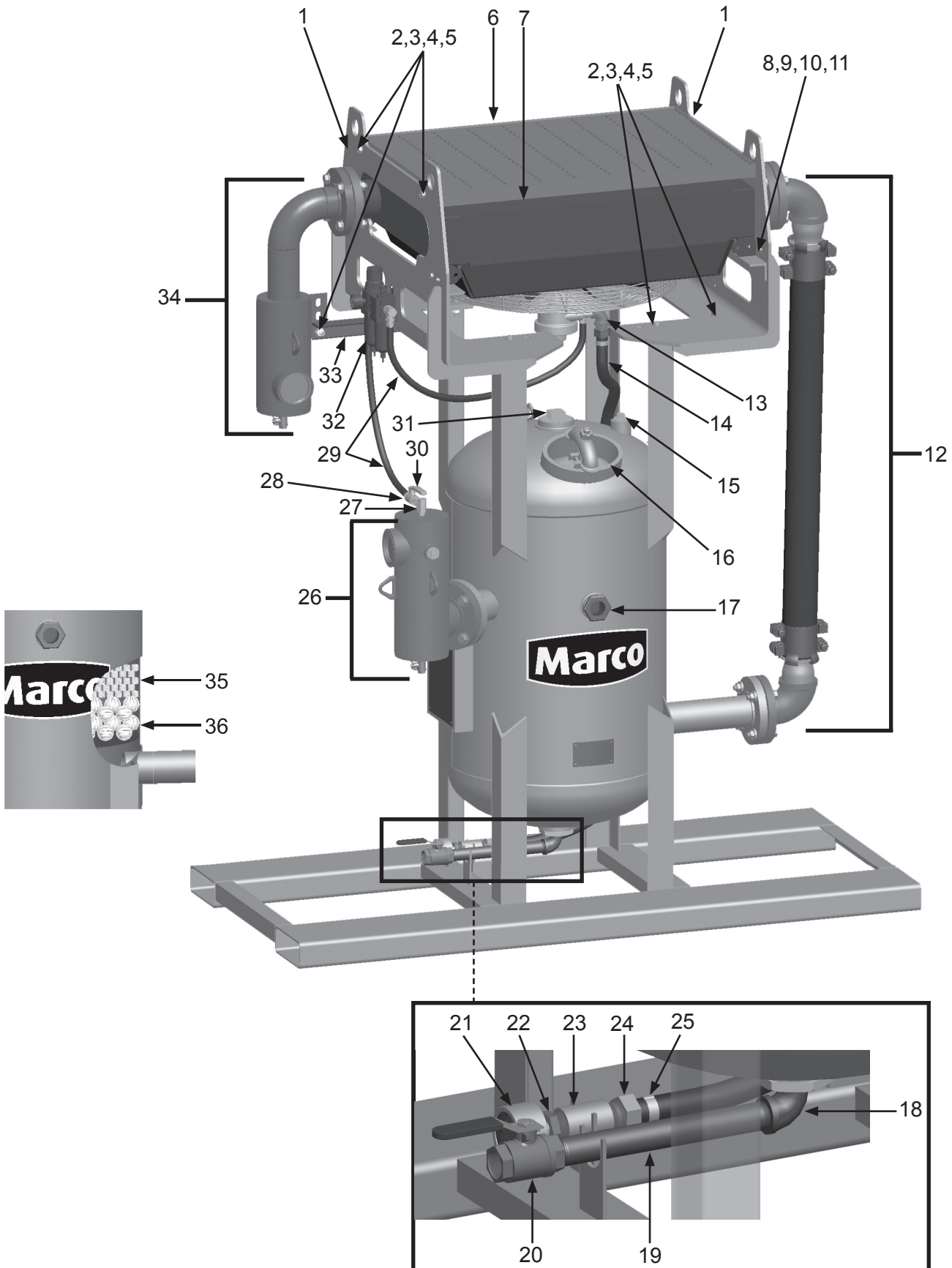
Height: 88"
Width: 72"
Depth: 35"

PART NUMBERS & SCHEMATICS

Item #	Part #	Description
Fig. 2		
—	10101670	Blastmaster® 1600 CFM Air Dryer – Pneumatic
1	10101033	950-1600 CFM Heat Exchanger Mounting Bracket <i>(Two Required)</i>
2	10101943	1/2-13 X 1-1/2" Bolt <i>(13 Required)</i>
3	10100674	1/2" Flat Washer <i>(13 Required)</i>
4	10100675	1/2" Split Lock Washer <i>(13 Required)</i>
5	10101941	1/2" Hex Nut <i>(13 Required)</i>
6	10101166	Heat Exchanger Protective Grate
7	10TTAHP16005	Aftercooler Core Assembly - Complete <i>(See Fig. 3)</i>
8	10101059	3/8-16 X 1-1/4" Bolt <i>(Four Required)</i>
9	10101942	3/8" Flat Washer <i>(Eight Required)</i>
10	10L805015	3/8" Lock Washer <i>(Four Required)</i>
11	10101938	3/8" Hex Nut <i>(Four Required)</i>
12	—	Transfer Hose Assembly <i>(See Fig.4)</i>
13	10101002	1/2" X 1" NPT Reducing Elbow
14	10AH100	1" I.D. Air Hose <i>(Per Foot)</i>
15	1011902	1-1/4" NPT Plug
16	—	Inspection Door Assembly <i>(See Fig.6)</i>
17	10101688	2" NPT Sight Glass
18	1011801	1" NPT Street Elbow
19	10101064	1" X 12" NPT Pipe Nipple
20	1011601	1" NPT Full Port Ball Valve
21	10101800	Aftercooler Exhaust Muffler – 950 CFM–1600 CFM
22	1011812	1" Male x 1/2" Female Bushing
23	1012151	1" Galvanized Close Nipple
24	10SFE2	1" Female Swivel <i>(Two Required)</i>
25	10AHCL1	Band Clamp <i>(Two Required)</i>
26	—	Outlet Filter Assembly <i>(See Fig.10)</i>
27	10SAP1290	1/2" 90° Swivel
28	20100677	1/2" (F) NPT X 1/2" (F) NPT Nipple
29	10AH012	1/2" I.D. Air Hose <i>(Per Foot)</i>
30	10L363	Ball Valve
31	10101034	3" NPT Galvanized Pipe Plug
32	10101232	Filter/Regulator/Lubricator with Pressure Gauge <i>(See Fig.9)</i>
34	—	Inlet Filter Assembly <i>(See Fig. 5)</i>
35	—	Desiccant Tablets <i>(See Fig. 11)</i>
36	10103922	Spherical Tower Packing <i>(See Fig. 11)</i>
	105M117	Features, Advantages, and Benefits Guide – Blastmaster® 1600 CFM Air Dryer
—	106M117	Part Numbers and Schematics Guide – Blastmaster® 1600 CFM Air Dryer
	1090117	Operator's Manual – Blastmaster® 1600 CFM Air Dryer
—	1091017	Hazard Identification Tag

PART NUMBERS & SCHEMATICS

Figure 2: Blastmaster 1600 CFM Air Dryer – Pneumatic

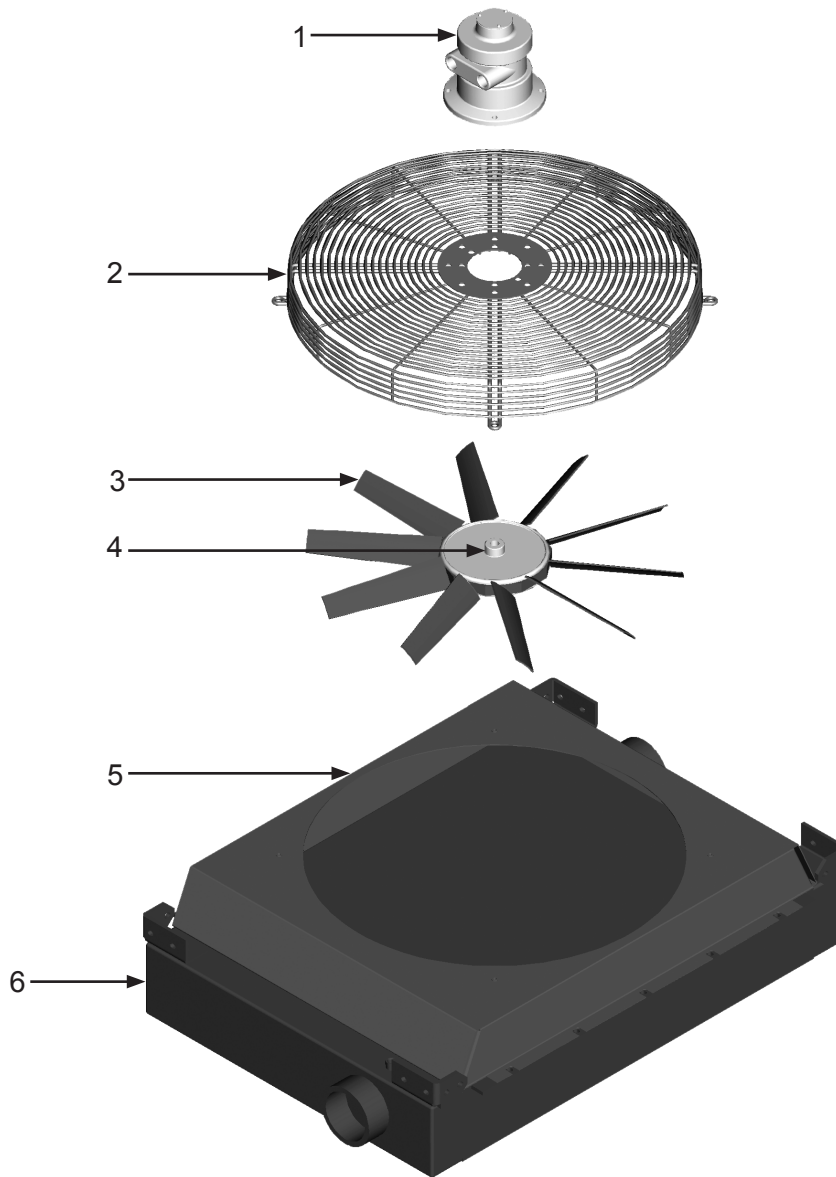


PART NUMBERS & SCHEMATICS

Item #	Part #	Description
Fig. 3		
—	10TTAHP16005	1600 CFM Aftercooler Core Assembly – Complete
1	10101804	Air Motor
2	10101808	Fan Guard
3	10101806	Fan Blade (10 Required)
4	10101807	Bushing
5	1014172	Aftercooler Shroud
6	10101803	Aftercooler Core
—	10101800	Muffler for Air Motor
—	10101805	Air Motor Service Kit <i>(Includes: shaft seal, drive end bearing, dead end bearing, four vanes, four push pins, four vane springs, shim, end cap gasket, muffler cartridge, and muffler felt)</i>

PART NUMBERS & SCHEMATICS

Figure 3: Aftercooler Core Assembly

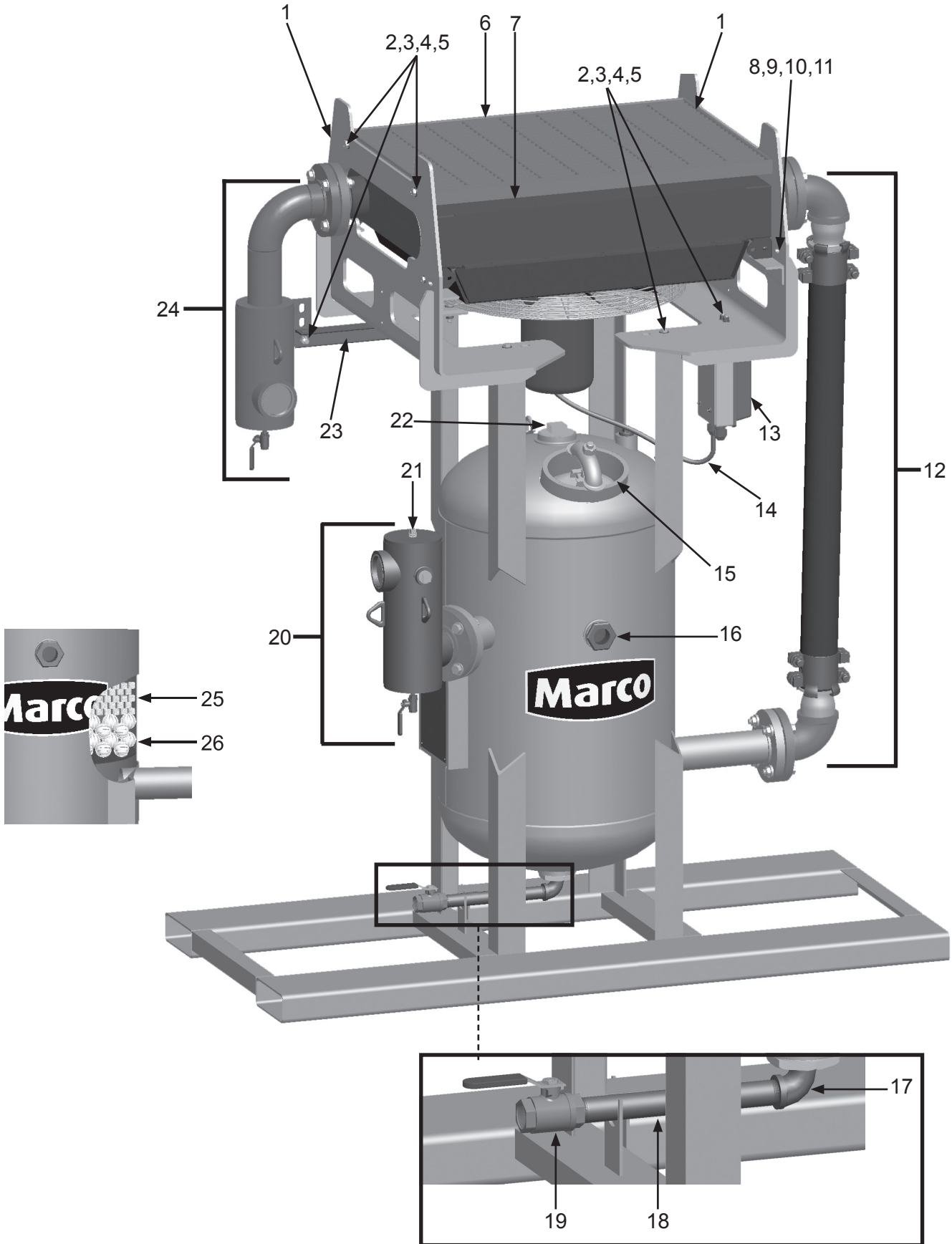


PART NUMBERS & SCHEMATICS

Item #	Part #	Description
Fig. 4		
—	10101671	Blastmaster® 1600 CFM Air Dryer – Electric
1	10101033	950-1600 CFM Heat Exchanger Mounting Bracket <i>(Two Required)</i>
2	10101943	1/2-13 X 1-1/2" Bolt <i>(13 Required)</i>
3	10100674	1/2" Flat Washer <i>(13 Required)</i>
4	10100675	1/2" Split Lock Washer <i>(13 Required)</i>
5	10101941	1/2" Hex Nut <i>(13 Required)</i>
6	10101036	Heat Exchanger Protective Grate
7	10TTAHP16002	1600 CFM Aftercooler Core Assembly - Complete <i>(See Fig. 5)</i>
8	10101059	3/8-16 X 1-1/4" Bolt <i>(Four Required)</i>
9	10101942	3/8" Flat Washer <i>(Eight Required)</i>
10	10L805015	3/8" Lock Washer <i>(Four Required)</i>
11	10101938	3/8" Hex Nut <i>(Four Required)</i>
12	—	Transfer Hose Assembly <i>(See Fig.6)</i>
13	10101760	115-Volt AC Motor Starter – Single Phase
14	1011902	1-1/4" NPT Plug
15	—	Inspection Door Assembly <i>(See Fig.8)</i>
16	10101688	2" NPT Sight Glass
17	1011801	1" NPT Street Elbow
18	10101064	1" X 12" NPT Pipe Nipple
19	1011601	1" NPT Full Port Ball Valve
20	—	Outlet Filter Assembly <i>(See Fig.10)</i>
21	20G100737	1/2" NPT Pipe Plug
22	10101034	3" NPT Galvanized Pipe Plug
23	10101170	Moisture Separator Brace
24	—	Inlet Filter Assembly <i>(See Fig. 7)</i>
25	—	Desiccant Tablets <i>(See Fig. 11)</i>
26	10103922	Spherical Tower Packing <i>(See Fig. 11)</i>
	105M117	Features, Advantages, and Benefits Guide – Blastmaster® 1600 CFM Air Dryer
—	106M117	Part Numbers and Schematics Guide – Blastmaster® 1600 CFM Air Dryer
	1090117	Operator's Manual – Blastmaster® 1600 CFM Air Dryer
—	1091017	Hazard Identification Tag

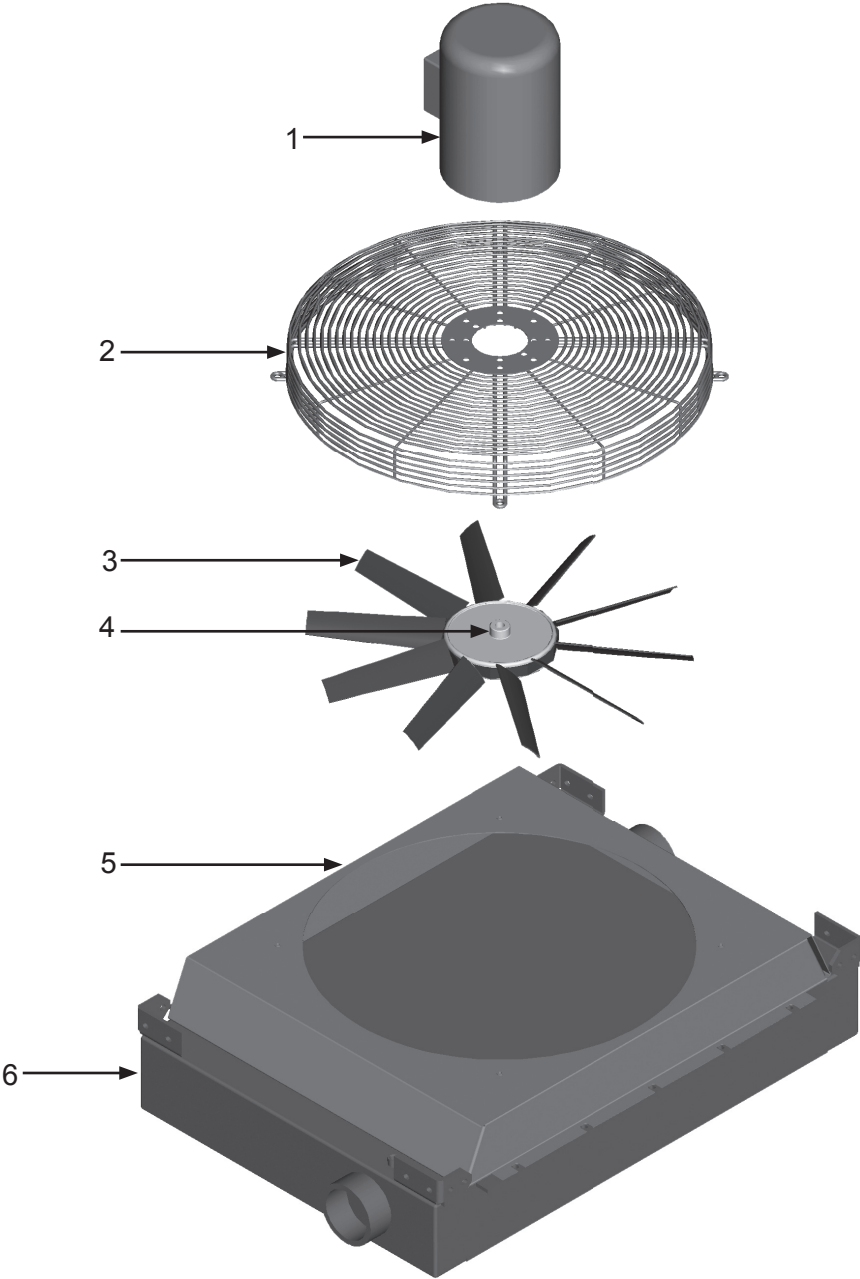
PART NUMBERS & SCHEMATICS

Figure 4: Blastmaster 1600 CFM Air Dryer



PART NUMBERS & SCHEMATICS

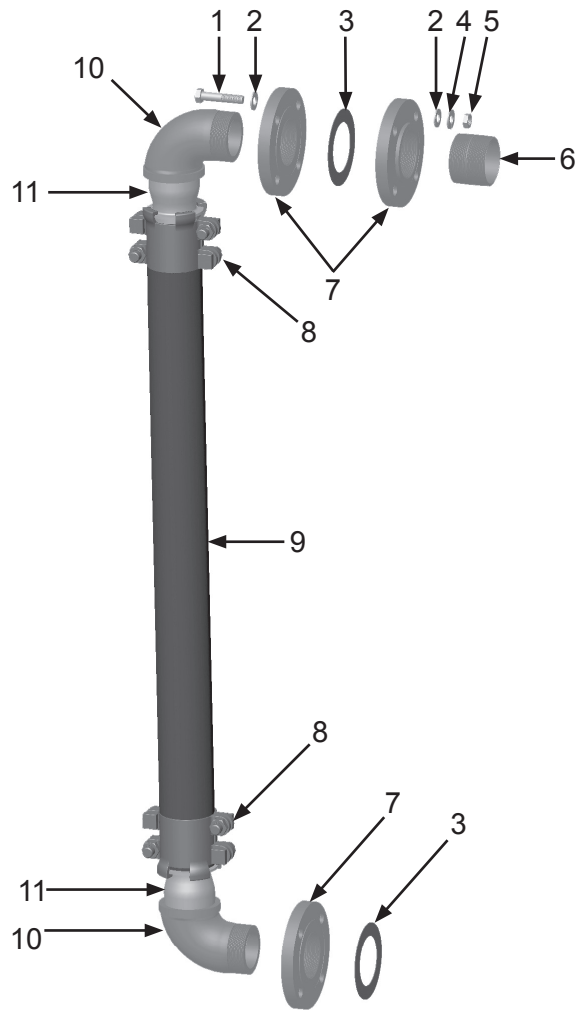
Figure 5: Electric Aftercooler Core Assembly



Item #	Part #	Description
Fig. 5		
—	10TTAHP16002	1600 CFM Aftercooler Core Assembly - Complete (See Fig. ??)
1	10101809	Electric Motor – (115 Volt to 208-230 Volt) – Single Phase
2	10101808	Fan Guard
3	10101806	Fan Blade Assembly
4	10101807	Bushing
5	1014172	Aftercooler Shroud
6	10101803	Aftercooler Core

PART NUMBERS & SCHEMATICS

Figure 6: Transfer Hose Assembly



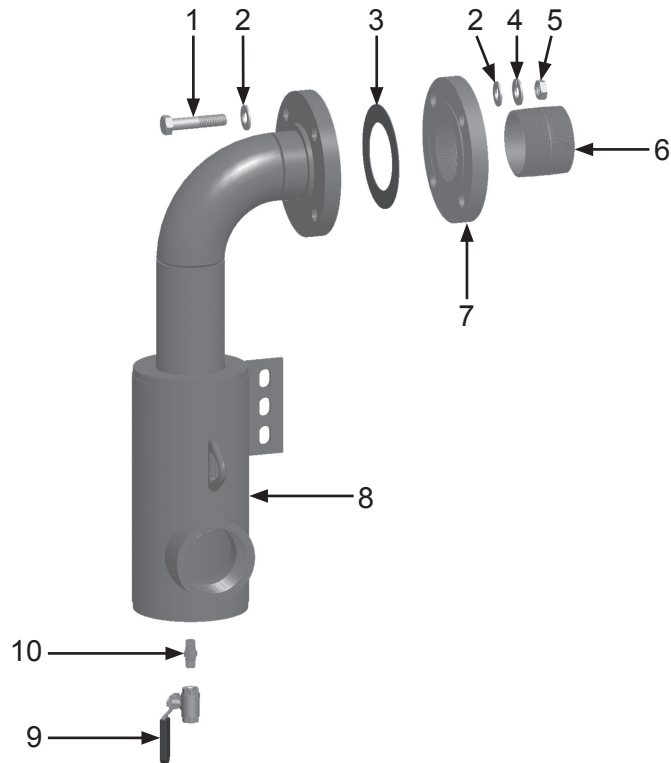
Item #	Part #	Description
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Fig. 6

1	10101058	5/8-11 X 3" Bolt (<i>Eight Required</i>)
2	10101060	5/8" Flat Washer (<i>16 Required</i>)
3	10101047	Flange Gasket (<i>Two Required</i>)
4	10101061	5/8" Split Lock Washer (<i>Eight Required</i>)
5	10101062	5/8" Hex Nut (<i>Eight Required</i>)
6	10101040	3" NPT Close Nipple
7	10101041	3" NPT Threaded Flange (<i>Three Required</i>)
8	10BU35	3" Boss Clamp (<i>Two Required</i>)
9	10101045	3" X 2-1/2' Steel Reinforced Air Hose (<i>Per Foot</i>)
10	10101148	3" NPT Street Elbow (<i>Two Required</i>)
11	10101754	3" NPT Hose Stem (<i>Two Required</i>)

PART NUMBERS AND SCHEMATICS

Figure 7: Inlet Filter



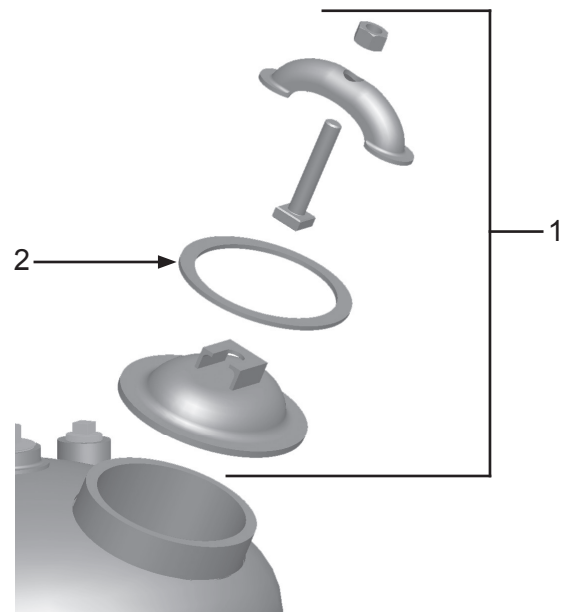
Item #	Part #	Description
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Fig. 7

1	10101058	5/8-11 X 3" Bolt (<i>Four Required</i>)
2	10101060	5/8" Flat Washer (<i>Eight Required</i>)
3	10101047	Flange Gasket
4	10101061	5/8" Split Lock Washer (<i>Four Required</i>)
5	10101062	5/8" Hex Nut (<i>Four Required</i>)
6	10101040	3" NPT Close Nipple
7	10101041	3" NPT Threaded Flange
8	10101049	Inlet Filter
9	1080050	1/4" NPT Full Port Ball Valve
10	1017019	1/4" NPT Hex Nipple

PART NUMBERS & SCHEMATICS

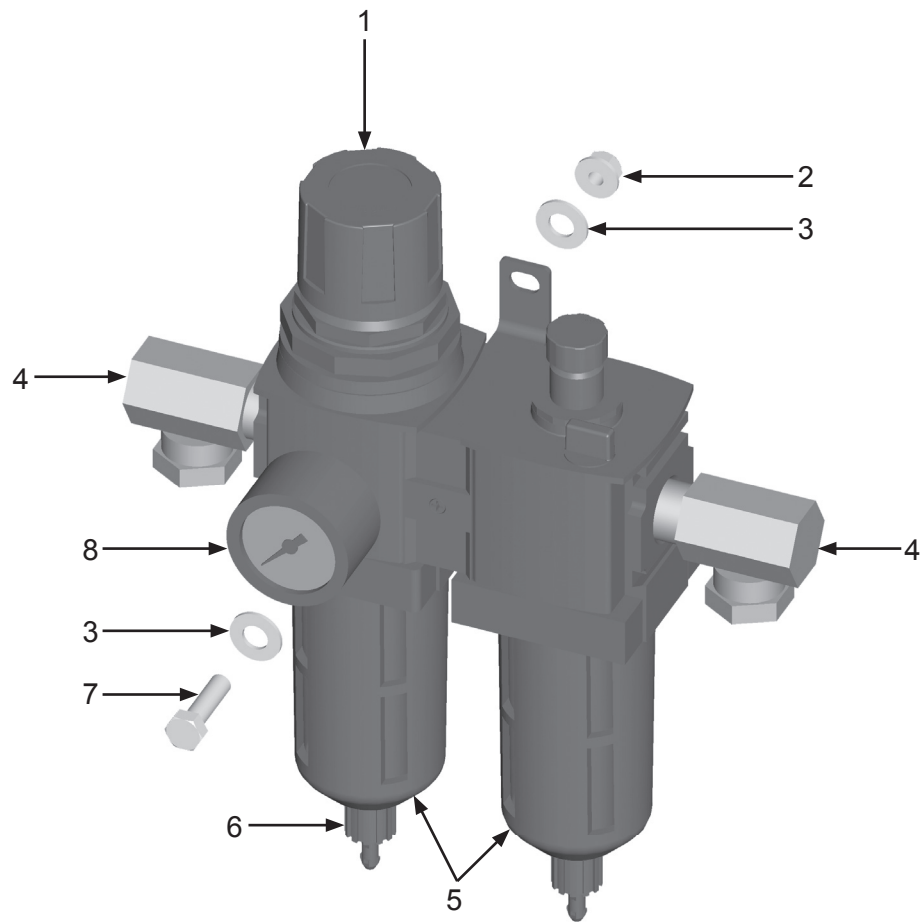
Figure 8: Inspection Door Assembly



Item #	Part #	Description
Fig. 8		
1	10104275	Air Dryer Inspection Door Assembly – Complete <i>Includes Item #2</i>
2	10101123	Inspection Door Gasket

PART NUMBERS & SCHEMATICS

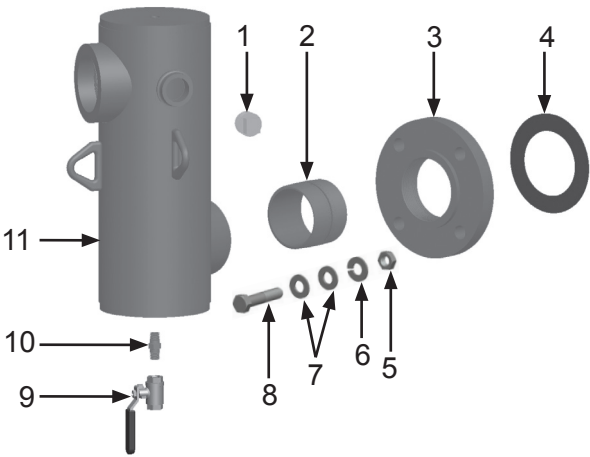
Figure 9: Filter/Regulator/Lubricator Assembly



Item #	Part #	Description
Fig. 9		
1	10101232	Filter/Regulator/Lubricator with Pressure Gauge
2	10101939	1/4" Nylon Insert Lock Nut
3	10101940	1/4" Flat Washer (<i>Two Required</i>)
4	10SAP1290	1/2" 90° Swivel (<i>Two Required</i>)
5	10101235	Polycarbonate Bowl (<i>Two Required</i>)
6	10101234	Manual Drain
7	10101937	1/4-20 X 1" Bolt
8	1028606	Pressure Gauge – 0-160 PSI 1/4" – Back Mount
–	10101233	Filter Element

PART NUMBERS & SCHEMATICS

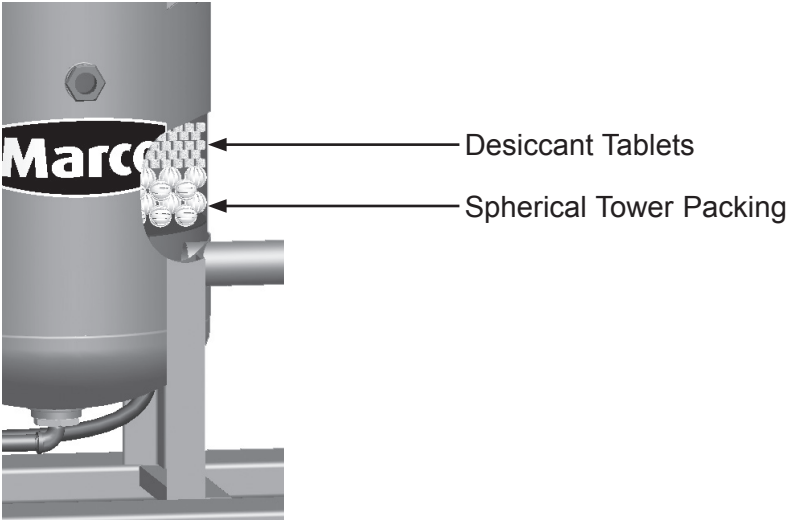
Figure 10: Outlet Filter Assembly



Item #	Part #	Description
Fig. 10		
1	1011901	1" Galvanized Square Head Pipe Plug
2	10101040	3" Galvanized Close Nipple
3	10101041	Flange
4	10101047	Flange Gasket
5	10101062	5/8-11 Hex Nut
6	10101061	5/8" Lock Washer
7	10101060	5/8" X 1-5/16" Stainless Steel Flat Washer <i>(Two Required)</i>
8	10101058	5/8-11 X 3" Bolt
9	1080050	1/4" Ball Valve
10	1017019	1/4" X 1/4" Hex Nipple
11	10101686	Outlet Filter Body

OPTIONAL ACCESSORIES

Figure 11: Desiccant Tablets and Spherical Tower Packing



Part Numbers	DESICCANT TABLETS	
	Package Weight	Packaging
10V330311	50 pounds	Bag
15V330313	50 pounds	Pail
15V330203	506 pounds	Steel Drum
15V330284	2000 pounds	Bulk Bag

Part Numbers	SPHERICAL TOWER PACKING	
	Unit of Measure	
10103922	1 Cubic Foot	

OPTIONAL ACCESSORIES

		AIRFLOW SHUTOFF KITS				
		Pipe String I.D.	Close Nipple	Full Port Ball Valve	Coupling	Bushing
	10103731	1"	1012151	1011601	10ME2	None
	10103732	1-1/4"	1011201 (Quantity of Two)	1011602	10ME3	None
	10103733	1-1/2"	1014015 (Quantity of Two)	1011603	10ME4	None
	10103734	2"	1001806 (Quantity of Two)	1011604	10ME5	None

	Part Numbers	INLET/OUTLET BUSHING
		Size
	10101183	Galvanized 3" MNPT X 2" FNPT Bushing

OPTIONAL ACCESSORIES

		HAMMERLOCK AIRFLOW SHUTOFF KITS				
		Pipe String I.D.	Close Nipple	Full Port Ball Valve	Coupling Spud	Bushing
	10103830	1"	10102151 <i>(Quantity of Two)</i>	1011601	10DXGB13	None
	10103831	1-1/4"	1011201 <i>(Quantity of Two)</i>	1011602	10DXGB18	None
	10103832	1-1/2"	1014015 <i>(Quantity of Two)</i>	1011603	10DXGB23	None
	10103833	2"	1001806 <i>(Quantity of Two)</i>	1011604	10DXGB28	None
	10103934	3"	10101040 <i>(Quantity of Two)</i>	1011608	10GB38	None

		Part Numbers	GALVANIZED SQUARE HEAD PIPE PLUGS
			Size
		1011901	1"
		1011902	1-1/4"
		1011101	1-1/2"
		1011823	2"

MAINTENANCE NOTES

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MAINTENANCE NOTES

[illegible]

MAINTENANCE NOTES

[illegible]

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