

DISTRIBUTED BY:

McGuire Air Compressors, Inc.

www.AirDryers.biz

Mailing Address: P.O. Box 1100

Located at: 729 East Elm St

Graham NC 27253

336-229-9999

Email: airdryers@mcguire.biz



McIntire Company

AN INNOVATOR IN DRY AIR TECHNOLOGY SINCE 1925



Since 1925, McIntire has led the way in dry air technology. Since the 1960s, McIntire has focused on producing highly specialized air dryer systems for the telecommunications and wireless industry. As the needs of the industries we serve have changed dramatically over the last decade, we have expanded and developed our product lines to continually meet the demands of our customers.

In December of 2005, McIntire acquired the refrigerated and regenerative air dryer division of Arrow Pneumatics, making McIntire one of the world's largest and most recognizable producers of compressed air dryers.

McIntire is committed to providing unparalleled product quality, exceptional delivery and top-rate support at an excellent value to our customers.





Dryer Features



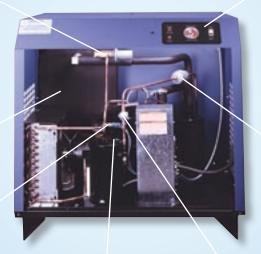
Hot Gas Bypass System maintains coldest evaporator temperature without freeze-up. Constant pressure expansion valves are used instead of cheap, unreliable capillary tubing.

> High-efficiency, longlasting heat exchangers. Rugged stainless steel/ aluminum construction.



Fan switch accommodates low/high load conditions automatically.

Quick-acting Thermostatic Expansion Valves (not shown) on all Arrow Dryers ensures proper refrigerant flow.



Highly Efficient Hermetic Compressor

- Thermally Protected
- Rubber Mounted



Easy to read and use display panel with:

- Dew Point Indicator/ Suction Pressure Gauge
- Drain Test
- Drain Alarm
- Power On/Off Switch with Integrated Light



Filter drier ensures dryer safety from water contamination.

Sight glass for easy refrigerant level identification



F Series

F-05/10



REFRIGERANT SYSTEM

- Highly Efficient Hermetic Compressor
 - Thermally Protected
 - Rubber Mounted
- Copper Tube and Aluminium Fin Condenser
- Constant Pressure Expansion Valve
- All Electrical Components Easily Accessible
- Universal CFC Free R-134A Refrigerant

AIR SYSTEM

- Enhanced Condensate Separator Includes 40 Micron Sintered Bronze Filtration
- Maximum Pressure Drop Less than 4 psi
- Zero Loss Demand Drain

INSTRUMENTATION

- Power On Light
- High Temperature Light

CABINET

- Powder Coated Textured Paint Finish
- Heavy Duty Metal Construction

ELECTRICAL

- Lowest Power Consumption
- Several Available Voltages:1) 115/1/60 or 100/1/502) 208-230/1/60 or 200-240/1/50
- 2' Power Cord

WARRANTY

- 2 Year Compressor Warranty
- 5 Year Heat Exchanger Warranty

OPTIONAL FEATURE

Electric Drain

F-20



REFRIGERANT SYSTEM

- All Stainless Steel Heat Exchanger Combining both Air-to-Air and Refrigerant-to-Air Circuitry
- Highly Efficient Hermetic Compressor
 - Thermally Protected
 - Rubber Mounted
- Copper Tube and Aluminium Fin Condenser
- Constant Pressure Expansion Valve
- All Electrical Components Easily Accessible
- Universal CFC Free R-134A Refrigerant

AIR SYSTEM

- Enhanced Condensate Separator Includes 40 Micron Sintered Bronze Filtration
- Exiting Air is Reheated to Eliminate Downstream Condensation
- Maximum Pressure Drop Less than 4 psi
- Zero Loss Demand Drain

INSTRUMENTATION

- Power On/Off Switch and Integrated Light
- Refrigerant Suction Pressure Gauge

CABINET

- Powder Coated Textured Paint Finish
- Heavy Duty Metal Construction

ELECTRICAL

- Lowest Power Consumption
- Several Available Voltages:1) 115/1/60 or 100/1/50
 - 2) 208-230/1/60 or 200-240/1/50
- 6' Power Cord

WARRANTY

- 2 Year Compressor Warranty
- 5 Year Heat Exchanger Warranty

OPTIONAL FEATURE

– Electric Drain



F-35 and F-50



REFRIGERANT SYSTEM

- All Stainless Steel Heat Exchanger Combining both Air-to-Air and Refrigerant-to-Air Circuitry
- Highly Efficient Hermetic Compressor
 - Thermally Protected
 - Rubber Mounted
- Copper Tube and Aluminium Fin Condenser
- Constant Pressure Expansion Valve
- All Electrical Components Easily Accessible
- Universal CFC Free R-134A Refrigerant

AIR SYSTEM

- Enhanced Condensate Separator Includes 40 Micron Sintered Bronze Filtration
- Exiting Air is Reheated to Eliminate Downstream Condensation
- Maximum Pressure Drop Less than 4 psi
- Zero Loss Demand Drain

INSTRUMENTATION

- Power On/Off Switch and Integrated Light
- Refrigerant Suction Pressure Gauge

CABINET

- New Compact Cabinet Design Incorporates Improved Accessibility and Function
- Powder Coated Textured Paint Finish
- Heavy Duty Metal Construction

ELECTRICAL

- Lowest Power Consumption
- Several Available Voltages:1) 115/1/60 or 100/1/502) 208-230/1/60 or 200-240/1/50
- 6' Power Cord

WARRANTY

- 2 Year Compressor Warranty
- 5 Year Heat Exchanger Warranty

OPTIONAL FEATURE

Electric Drain

F-75 thru F-150



REFRIGERANT SYSTEM

- All Stainless Steel Heat Exchanger Combining both Air-to-Air and Refrigerant-to-Air Circuitry
- Highly Efficient Hermetic Compressor
 - Thermally Protected
- Rubber Mounted
- Copper Tube and Aluminium Fin Condenser
- Quick Response Expansion Valve
- All Electrical Components Easily Accessible
- Universal CFC Free R-134A Refrigerant

AIR SYSTEM

- Enhanced Condensate Separator Includes 40 Micron Sintered Bronze Filtration
- Exiting Air is Reheated to Eliminate Downstream Condensation
- Maximum Pressure Drop Less than 4 psi
- Zero Loss Demand Drain

INSTRUMENTATION

- Power On/Off Switch and Integrated Light
- Dew Point Indicator Gauge

CABINET

- New Compact Cabinet Design Incorporates Improved Accessibility and Function
- Powder Coated Textured Paint Finish
- Heavy Duty Metal Construction

ELECTRICAL

- Lowest Power Consumption
- Several Available Voltages:1) 115/1/60 or 100/1/502) 208-230/1/60 or 200-240/1/50
- 6' Power Cord

WARRANTY

- 2 Year Compressor Warranty
- 5 Year Heat Exchanger Warranty

OPTIONAL FEATURE

- Electric Drain

F Series

F-200 thru F-350



REFRIGERANT SYSTEM

- Heat Exchanger Combining both Air-to-Air, Refrigerant-to-Air Circuitry and Integrated Separator
- Highly Efficient Hermetic Compressor
 - Thermally Protected
 - Rubber Mounted
- Copper Tube and Aluminium Fin Condenser
- Quick Response Expansion Valve
- All Electrical Components Easily Accessible
- Universal CFC Free R-134A Refrigerant

AIR SYSTEM

- Exiting Air is Reheated to Eliminate Downstream Condensation
- Maximum Pressure Drop Less than 4 psi
- Electric Zero Loss Condensate Drain

INSTRUMENTATION

- Power On/Off Switch and Integrated Light
- Dew Point Indicator Gauge
- Manual Override and Drain Alarm

CABINET

- New Compact Cabinet Design Incorporates Improved Accessibility and Function
- Powder Coated Textured Paint Finish
- Heavy Duty Metal Construction

ELECTRICAL

- Lowest Power Consumption
- Several Available Voltages:
 2) 208-230/1/60 or 200-240/1/50
 3) 208-230/3/60 or 200-240/3/50
 4) 460/3/60 or 380/3/50

WARRANTY

- 2 Year Compressor Warranty
- 5 Year Heat Exchanger Warranty

OPTIONAL FEATURE

- Electric Drain

F-400 thru F-625



REFRIGERANT SYSTEM

- Heat Exchanger Combining both Air-to-Air, Refrigerant-to-Air Circuitry and Integrated Separator
- Highly Efficient Hermetic Compressor
 - Thermally Protected
 - Rubber Mounted
- Copper Tube and Aluminium Fin Condenser
- Quick Response Expansion Valve
- All Electrical Components Easily Accessible
- Universal CFC Free R-134A Refrigerant (Model 400 only)
- Universal CFC Free R-404A Refrigerant (Models 500 and 625)

AIR SYSTEM

- Exiting Air is Reheated to Eliminate Downstream Condensation
- Maximum Pressure Drop Less than 4 psi
- Electric Zero Loss Condensate Drain

INSTRUMENTATION

- Power On/Off Switch and Integrated Light
- Dew Point Indicator Gauge
- Manual Override and Drain Alarm

CABINET

- Powder Coated Textured Paint Finish
- Heavy Duty Metal Construction

ELECTRICAL

- Lowest Power Consumption
- Several Available Voltages:3) 208-230/3/60 or 200-240/3/504) 460/3/60 or 380/3/50

WARRANTY

- 2 Year Compressor Warranty
- 5 Year Heat Exchanger Warranty

OPTIONAL FEATURE

- Electric Drain



F-750 thru F-1200



REFRIGERANT SYSTEM

- Dual Heat Exchangers Combining both Air-to-Air, Refrigerant-to-Air Circuitry and Integrated Separator
- Highly Efficient Scroll Compressor
 - Thermally Protected
 - Rubber Mounted
- Copper Tube and Aluminium Fin Condenser
- Quick Response Expansion Valve
- All Electrical Components Easily Accessible
- Universal CFC Free R-404A Refrigerant

AIR SYSTEM

- Exiting Air is Reheated to Eliminate Downstream Condensation
- Maximum Pressure Drop Less than 4 psi
- Electric Zero Loss Condensate Drain

INSTRUMENTATION

- Power On/Off Switch and Integrated Light
- Dew Point Indicator Gauge
- Refrigerant Discharge Gauge
- Manual Override and Drain Alarm

CABINET

- Powder Coated Textured Paint Finish
- Heavy Duty Metal Construction

ELECTRICAL

- Lowest Power Consumption
- Several Available Voltages:3) 208-230/3/60 or 200-240/3/504) 460/3/60 or 380/3/50

WARRANTY

- 2 Year Compressor Warranty
- 2 Year Heat Exchanger Warranty

F-1600 thru F-2000



REFRIGERANT SYSTEM

- Triple or Quadruple Heat Exchangers Combining both Air-to-Air, Refrigerant-to-Air Circuitry and Integrated Separator.
- Highly Efficient Scroll Compressor
 - Thermally Protected
 - Rubber Mounted
- Copper Tube and Aluminium Fin Condenser
- Quick Response Expansion Valve
- All Electrical Components Easily Accessible
- Universal CFC Free R-404A Refrigerant

AIR SYSTEM

- Exiting Air is Reheated to Eliminate Downstream Condensation
- Maximum Pressure Drop Less than 4 psi
- Electric Zero Loss Condensate Drain

INSTRUMENTATION

- Power On/Off Switch and Integrated Light
- Dew Point Indicator Gauge
- Manual Override and Drain Alarm

CABINET

- Powder Coated Textured Paint Finish
- Heavy Duty Metal Construction

ELECTRICAL

- Lowest Power Consumption
- Several Available Voltages:3) 208-230/3/60 or 200-240/3/504) 460/3/60 or 380/3/50

WARRANTY

- 2 Year Compressor Warranty
- 2 Year Heat Exchanger Warranty

High Performance and Heavy Duty Dryers

High Performance 3-in-1 Dryers

When the application demands performance, Arrow High Performance Dryers step up to the task. Whether it is a high inlet temperature, high inlet pressure or high ambient application, Arrow 3-in-1 Dryers will give you a consistent 35°F dew point for consistent product output.



FEATURES

- Design Eliminates the Need for an Aftercooler, Separator and Drain Trap before the Air Dryer
- Stainless Steel Heat Exchanger
- Pressure Dew Point as Low as 35°F
- Filter Element 40 Micron
- Mechanical Moisture Separator with Zero Loss Demand Drain
- Handles Inlet Air Temperature up to 180°F
- Includes Monitoring Instrumentation
- Six Foot Electrical Cord with Grounded Plug on Models F-3528

thru F-3530 with 115 volts

 Refrigeration System Utilizes Environmentally Safe R-134A Refrigerant

INSTRUMENTATION

- Power On/Off Switch
- Dew Point Indicator Gauge
- Air Inlet Temperature on F-3531 and F-3532 Models Only

WARRANTY

- Two Year Warranty
- Five Year Heat Exchanger Warranty

CFM@1	Flow (40°F/35°F	CFM@1	Flov 20°F/35°		
/lodel	100 psig	140 psig	175 psig	Model	100 psi
-3528	24	27	29	F-3528	34
-3529	44	49	53	F-3529	50
-3530	70	78	83	F-3530	70
-3531	85	95	102	F-3531	100
-3532	148	167	178	F-3532	210

CFM@1	Flow Capacity CFM@120°F/35°F Pressure Dew Point										
Model	Model 100 psig 140 psig 175 psig										
F-3528	34	37	39								
F-3529	50	58	64								
F-3530	70	81	90								
F-3531 100 115 128											
F-3532	210	229	240								

F-3528 21 21.9 24 F-3529 30 36.8 40 F-3530 50 56 64 70 81 88 F-3531

100 psig

105

Model

F-3532

Flow Capacity
CFM@160°F/35°F Pressure Dew Point

140 psig

175 psig

140

Heavy Duty Series Dryers

130

The Arrow Heavy Duty 50 Series are the dryers of choice for professionals who demand more from their dryer. The 50 Series Dryers are designed to operate continually in the most extreme conditions offering a consistent 50°F dew point at an excellent value.



FEATURES

- Design Eliminates the Need for an Aftercooler, Separator and Drain Trap before the Air Dryer
- Stainless Steel Heat Exchanger
- Consistent 50°F Dew Point at Extreme Conditions
- Filter Element 40 Micron
- Dew Point Not Dependent on Absorbing Filter Element
- Does Not Require Expensive Maintenance Kit
- Handles Inlet Air Temperature up to 180°F

- Mechanical Moisture Separator with Zero Loss Demand Drain
- Dew Point Indicator
- Air Is Reheated to Prevent Pipe Sweating
- Six Foot Electrical Cord with Grounded Plug
- Environmentally Safe R-134A Refrigerant

WARRANTY

- Two Year Warranty
- Five Year Heat Exchanger Warranty

Units are rated 1

The units, however, are designed for 180°F inlet air temperature and 100°F ambient temperature. Maximum operating pressure is 250 psig.

Specifications

Refrigerated Air Dryers



Air Flow Ratings

Air dryer rated flows are based upon design conditions of 100°F inlet, 100 psig and 100°F ambient. If these conditions vary, the rated flows will vary in accordance with the following general rules and tables.

As Inlet AIr Temperature increases, Flow Capacity will decrease:												
Inlet Alr Temperature 90°F 95°F 100°F 110°F 120°F												
Flow Capacity Multiplier	1.23	1.13	1.00	0.83	0.69							

As Air Line Pressure increases, Flow Capacity will increase:											
Air Line Pressure 60 psig 80 psig 100 psig 120 psig 150 psig											
Flow Capacity Multiplier .88 .95 1.00 1.04 1.08											

As Ambient Air Temperature increases, Flow Capacity will decrease:											
Ambient Air Temperature 80°F 90°F 100°F 110°F											
Flow Capacity Multiplier	1.14	1.07	1.00	.92							

As the Dew Point increases, Flow Capacity will increase: If design conditions (100°F, 100 psig, 100°F ambient) remain the same, but a higher dew point is acceptable, the Flow Capacity will increase approximately in accordance with the following multipliers:

Dew Point	39°F	45°F	50°F	
Flow Capacity Multiplier	1.05	1.15	1.20	

These figures are simply general rules, multipliers and formulas to help you select a dryer; however, they do not apply to 3-in-1 Dryers.

Moisture Removal Data

Temp. at Receiver Tank	System Temp	Lbs. Condensed Per 100 CFM	Lbs. Per 8 Hr. Shift	Gallons Per 8 Hr. Shift
120	70	.05613	26.94	3.23
100	70	.02455	11.78	1.41
90	70	.01399	6.718	.81
80	70	.005965	2.863	.34
120	50	.06386	30.65	3.67
100	50	.03227	15.49	1.86
90	50	.02172	10.43	1.25
80	50	.01369	6.571	.79
120	35	.06714	32.23	3.86
100	35	.03556	17.07	2.05
90	35	.02501	12.00	1.44
80	35	.01698	8.149	.98

Note: 8.3453 Lbs. Per Gallon

Standard Instrument Panels

	А	В	С	D	Е	F
On/Off Switch/Light		Χ	Χ	Χ	X	Χ
Power On Light	Χ					
High Temp Light	Χ					
Refrigerant Suction Gauge		Χ				
Dew Point Indicator Gauge			Χ	Χ	Χ	Χ
Air Inlet Temp Gauge				Χ		
Discharge Pressure Gauge						Χ
Manual Drain Override					Χ	Χ
Drain Alarm Light					Χ	X

Voltage Codes

Code #	Standard	Export
1	115/1/60	100/1/50
2	208-230/1/60	200-240/1/50
3	208-230/3/60	200-240/3/50
4	460/3/60	380/3/50

Specifications

F Series Dryers

Model	Flow Capa SCFM ⁽¹⁾ at listed Dew 35	Air Li	ction Drain	Refrig. Comp. HP Rating		eat Rejection //HR Water Cooled	Cool Air Flow CFM
F-05/10 F-20 F-35 F-50 F-75 F-100 F-125 F-150 F-200 F-250 F-300 F-350 F-400 F-500 F-625 F-750 F-1000 F-1200 F-1600 F-2000	20 35 50 75 100 125 150 200 250 250 300 350 400 625 750 625 750 1000 11200 11600 1	12 3/8" (225 1/2" File	3/8" OD 3/8" OD 3/8" OD 2T 3/8" OD	1/6 1/6 1/4 1/4 1/3 1/2 3/4 3/4 1 1 1/4 1 1/2 2 2 1/2 3 4 5 6 8	1,050 1,560 2,420 3,316 3,947 6,844 7,497 11,090 12,638 18,360 21,640 27,235 35,500 41,038 59,635 67,478 77,418 94,401 122,943	X X X X X X X 11,247 16,340 19,259 24,239 31,595 36,523 53,075 60,055 68,902 84,016 109,419	125 125 185 185 250 450 450 450 710 1070 1070 2470 2170 2170 4240 4240 5000 5600

High Performance 3-in-1 Dryers

Model	SC	Capacity FM Dew Point 50	Air Line Connection In & Out	Drain Connection	Refrig. Comp. HP Rating		imum ejection Water Cooled	Cool Air Flow CFM
F-3528 F-3529 F-3530 F-3531 F-3532	21 30 50 70 105	21.9 36.8 56 81 130	1" FPT 1" FPT 1" FPT 2" FPT 2" FPT	3/8" OD 3/8" OD 3/8" OD 3/8" OD 3/8" OD	1/4 1/2 1 1 1/4 1 1/2	3,316 6,844 12,638 18,360 21,640	X X X X	185 450 710 1070 1070

Heavy Duty Series Dryers

N	1odel	SC	Capacity EFM Dew Point 50	Air Line Connection In & Out	Drain Connection	Refrig. Comp. HP Rating		imum ejection Water Cooled	Cool Air Flow CFM
5	028 029 030 031	21 30 50 70	23 33 54 73	1/2" FPT 1/2" FPT 1" FPT 1" FPT	3/8"OD 3/8"OD 3/8"OD 3/8"OD	1/4 1/4 3/4 1	3,316 6,844 11,090 12,638	X X X	185 185 450 710

 $⁽¹⁾ Flow Rating based on design conditions of 100 ^{\circ}F inlet air temperature, 100 psi, 100 ^{\circ}F ambient air temperature.$



Max. Water Flow GPM 85 In 95 Out	Volt. Code	Std. Instrument Panel	Cond. Type	L	Dimensions W	Н	Wt. Lbs.	kW Input
N/A N/A N/A N/A N/A N/A N/A N/A 2.4 3.1 3.1 3.7 4.9 7.6 8.3 11 12.2 12.8 15.7 21.9	1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 2,3,4 2,3,4 2,3,4 3,4 3,4 3,4 3,4 3,4 3,4	A B B B C C C C E E E E E E F F F F F	Air	15.25 18.25 22.25 22.25 30.25 30.25 30.25 35.75 35.75 35.75 37.75 37.75 37.75 37.75 38.50 38.50 38.50 38.50	12.88 12.69 14 14 20 20 20 27.07 27.07 27.07 27.07 42.25 42.25 42.25 50.5 50.5 50.5 50.5	13.56 13.56 16 16 27.5 27.5 27.5 33 33 33 45 45 45 59.25 59.25 59.25 75.50 75.50	50 58 74 76 163 190 192 275 295 295 315 435 435 435 435 985 985 985	0.20 0.26 0.40 0.48 0.65 0.91 0.91 1.20 1.90 2.10 2.30 2.60 2.60 3.25 3.40 4.90 7.50 8.12 9.30 11.85

Max. Water Flow GPM 85 In 95 Out	Volt. Code	Std. Instrument Panel	Cond. Type	L	Dimensions W	Н	Wt. Lbs.	kW Input
N/A N/A N/A N/A	1,2 1,2 1,2 2,3,4 2,3,4	B C C D	Air Air Air Air Air	22.25 30.25 30.25 34.25 34.25	14 20 20 27 27	16 27.5 27.5 35 35	84 147 187 235 280	0.48 0.91 1.90 2.10 2.60

Max. Water Flow GPM 85 In 95 Out	Volt. Code	Std. Instrument Panel	Cond. Type	L	Dimensions W	Н	Wt. Lbs.	kW Input
N/A N/A N/A N/A	1,2 1,2 1,2 1,2	В В С	Air Air Air Air	22.25 22.25 30.25 30.25	14 14 20 20	16 16 27.5 27.5	75 78 163 278	0.40 0.48 0.51 1.25

Warranty

When used under the conditions recommended by the manufacturer, Arrow Dryers, refrigerated dryers are warranted to be free from defects in material and workmanship for a period of twenty-four (24) months from date of receipt, not to exceed thirty (30) months from the factory ship date, provided Arrow is furnished the customer's name, address and date of shipment information.

These units will utilize either a braze plate or modular type heat exchanger which will be warranted for five (5) years. This warranty is limited to the replacement of the heat exchangers, F.O.B. Factory, and subject to the same restrictions as outlined below concerning misuse, abuse or accident. The automatic drain carries a 90-day warranty.

This warranty will apply to equipment installed, operated and maintained in accordance with the procedures and recommendations as outlined in the owner's manual published by Arrow Dryers.

During the life of this warranty, Arrow Dryers will repair or replace (at Arrow Dryers' option) any defective part or assembly, free of charge, F.O.B. its plant, if such defect occurred in normal service and was not due to apparent misuse, abuse or accident.

Any warranty service performed in the field must be authorized by Arrow Dryers. Unauthorized service voids the warranty and any resulting charge will not be paid by Arrow Dryers.

Arrow Dryers makes no other warranties or guarantees, expressed or implied. The merchantability of the components is expressly excluded. The manufacturer assumes no liability for indirect or consequential damages.



Arrow Dryers

A McIntire Company 745 Clark Avenue Bristol, CT 06010 Phone: (877) 640 - 8300 Fax: (860) 314 - 4500

www.airtreatmentproducts.com

West Coast Warehouse 885 Fairway Drive Walnut, CA 91789 (909) 444 - 9880 Canadian Warehouse 305 Industrial Parkway S., Unit 11 Aurora, ON L4G 6X7 (905) 713 - 3926

For a complete listing of Arrow Dryers, including our line of Regenerative Dryers, please visit our Web site at www.airtreatmentproducts.com.