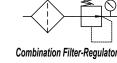


## Pneumatic Air Preparation - AFR2 Series Combination Filter and Regulators





AFR2-6633-AD



AFR2-2133-N

AFR2-3233-D

Mounting bracket included.

NITRA® pneumaticcombination particulate/moisture separation air filters and adjustable pressure regulators are available with 1/8", 1/4", 3/8", 1/2", 3/4" or 1" NPT female port sizes to meet a broad range of pneumatic air supply filtration and regulation applications all in a single convenient unit. Available with either a manual / semi-automatic or automatic drain. All-metal bowls with sight gauge are available in all sizes. Polycarbonate or nylon bowls with metal bowl guards are available in 2xxx, 3xxx and 4xxx sizes. Replaceable 40-micron filter elements are standard. An optional 5-micron filter element (purchased separately and customer installable) is available when stricter filtration is required.

The pressure regulator features a locking pressure adjustment knob, integral pressure gauge and is available in adjustable pressure ranges of 20 - 60 psi or 20 - 130 psi. The regulator will relieve downstream pressure if the setpoint is reduced.

Provided with a mounting bracket for stand-alone applications, the modular design also enables easy field assembly with NITRA pneumatic lubricators (using modular assembly brackets purchased separately).

#### **Features**

- Air filtration and regulation all in a single convenient unit
- 1/8", 1/4", 3/8", 1/2", 3/4" and 1" NPT female port sizes
- 40-micron replaceable filter element standard; for stricter filtration an optional 5-micron filter element purchased separately is easily customer installable
- All-metal bowls with sight gauge available on all sizes.
  Polycarbonateor nylon bowls with metal bowl guards available on 2xxx, 3xxx and 4xxx sizes.
- · Manual / semi-automatic and automatic drains available
- Adjustable ranges of 20 60 psi and 20-130 psi
- Locking pressure adjustment knob
- Integral pressure gauge
- Mounting bracket provided for stand-alone applications
- Modular design enables easy field assembly with NITRA lubricators
- 2 year warranty





See <u>www.AutomationDirect.com</u> for a wide variety of fitting options



# **Pneumatic Air Preparation - AFR2 Series Combination Filter and Regulators**

				AFR2 Series	Combi	natio	n Filter an	d Regulat	ors			
Part No.	Price	Weight (lbs)	Port Size (FNPT)	Drain Bowl Capacity	Drain Type	Fluid	Temperature	Filtering Grade	Operating Pressure	Maximum Pressure	Proof Pressure	Drawing Link
AFR2-2132-N	\$62.00	0.82		25cc nylon with metal bowl guard								PDF
AFR2-2132-D	\$72.00	0.85		25cc die-cast aluminum bowl w/ sight					20~60psi (0.14~0.41MPa) (1.4~4.1 bar)	60psi (0.41MPa)	_	PDF
AFR2-2132	\$62.00	0.83	4 (0.1)	25cc polycarbonate with metal bowl guard						(4.1 bar)		PDF
AFR2-2133-N	\$62.00	0.83	1/8"	25cc nylon with metal bowl guard					20~130psi (0.14~0.90MPa) (1.4~9.0 bar)	145psi (1.0MPa) (10 bar)		PDF
AFR2-2133-D	\$72.00	0.86		25cc die-cast aluminum bowl w/ sight								PDF
AFR2-2133	\$62.00	0.84		25cc polycarbonate with metal bowl guard								PDF
AFR2-2232-N	\$62.00	0.82		25cc nylon with metal bowl guard	,				00.00	00 :		PDF
AFR2-2232-D	\$72.00	0.84		25cc die-cast aluminum bowl w/ sight	Manual/ Semi- Automatic				20~60psi (0.14~0.41MPa)	60psi (0.41MPa) (4.1 bar)		PDF
AFR2-2232	\$62.00	0.82		25cc polycarbonate with metal bowl guard	Automatic				(1.4~4.1 bar)	(4.1 Dai)		PDF
AFR2-2233-N	\$62.00	0.83		25cc nylon with metal bowl guard						445		PDF
AFR2-2233-D	\$72.00	0.86		25cc die-cast aluminum bowl w/ sight	Air				20~130psi (0.14~0.90MPa) (1.4~9.0 bar)	145psi (1.0MPa) (10 bar)		PDF
AFR2-2233	\$62.00	0.84		25cc polycarbonate with metal bowl guard					(1.4 3.0 bai)	(10 20.)		PDF
<u>AFR2-3232-N</u>	\$71.00	1.34	l	60cc nylon with metal bowl guard								PDF
<u>AFR2-3232-D</u>	\$81.00	1.38		60cc die-cast aluminum bowl w/ sight								<u>PDF</u>
AFR2-3232	\$71.00	1.35	1/4"	60cc polycarbonate with metal bowl guard		-5°C to 70°C	40µ (5µ element can	20~60psi (0.14~0.41MPa)	60psi (0.41MPa)	215psi	<u>PDF</u>	
AFR2-3232-AN	\$88.00	1.37	1/4	60cc nylon with metal bowl guard			(23°F to 158°F	be ordered separately and field installed)	(1 1-1 1 hor)	(4.1 bar)	(1.5MPa) (15 bar)	PDF
AFR2-3232-AD	\$98.00	1.41		60cc die-cast aluminum bowl w/ sight								<u>PDF</u>
AFR2-3232-A	\$88.00	1.39		60cc polycarbonate with metal bowl guard								PDF
AFR2-3233-N	\$71.00	1.36		60cc nylon with metal bowl guard	,							PDF
AFR2-3233-D	\$81.00	1.39		60cc die-cast aluminum bowl w/ sight	Manual/ Semi- Automatic							PDF
AFR2-3233	\$71.00	1.37		60cc polycarbonate with metal bowl guard	Automatic				20~130psi	145psi		PDF
AFR2-3233-AN	\$88.00	1.39		60cc nylon with metal bowl guard					(0.14~0.90MPa) (1.4~9.0 bar)	(1.0MPa) (10 bar)		PDF
AFR2-3233-AD	\$98.00	1.42		60cc die-cast aluminum bowl w/ sight	Automatic							PDF
AFR2-3233-A	\$88.00	1.4		60cc polycarbonate with metal bowl guard								PDF
AFR2-3332-N	\$71.00	1.33		60cc nylon with metal bowl guard								PDF
AFR2-3332-D	\$81.00	1.37		60cc die-cast aluminum bowl w/ sight	Manual/ Semi-							PDF
AFR2-3332	\$71.00	1.35		60cc polycarbonate with metal bowl guard	Automatic				20~60psi	60psi		PDF
AFR2-3332-AN	\$88.00	1.36	3/8"	60cc nylon with metal bowl guard					(0.14~0.41MPa) (1.4~4.1 bar)	(0.41MPa) (4.1 bar)		PDF
AFR2-3332-AD	\$98.00	1.38		60cc die-cast aluminum bowl w/ sight	Automatic							PDF
<u>AFR2-3332-A</u>	\$88.00	1.38		60cc polycarbonate with metal bowl guard								PDF

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## **Pneumatic Air Preparation - AFR2 Series** PNEUMATICS Combination Filter and Regulators

	AFR2 Series Combination Filter and Regulators Cont.												
Part No.	Price	Weight (lbs)	Port Size (FNPT)	Drain Bowl Capacity	Drain Type	Fluid	Temperature	Filtering Grade	Operating Pressure	Maximum Pressure	Proof Pressure	Drawing Link	
<u>AFR2-3333-N</u>	\$52.00	1.34		60cc nylon with metal bowl guard						145psi (1.0MPa) (10 bar)	215psi (1.5MPa) (15 bar)	PDF	
AFR2-3333-D	\$81.00	1.39		60cc die-cast aluminum bowl w/ sight	Manual/Semi- Automatic							<u>PDF</u>	
<u>AFR2-3333</u>	\$71.00	1.37	3/8"	60cc polycarbonate with metal bowl guard								<u>PDF</u>	
<u>AFR2-3333-AN</u>	\$88.00	1.37	3/0	60cc nylon with metal bowl guard					(0.14~0.90MPa) d (1.4~9.0 bar)			<u>PDF</u>	
AFR2-3333-AD	\$98.00	1.42		60cc die-cast aluminum bowl w/ sight 60cc polycarbonate with metal bowl guard	Automatic							PDF	
AFR2-3333-A	\$88.00	1.4				Air						<u>PDF</u>	
<u>AFR2-4433-N</u>	\$111.00	2.33		100cc nylon with metal bowl guard	Manual/Semi-Automatic		-5°C to 70°C	40μ (5μ element can				<u>PDF</u>	
AFR2-4433-D	\$125.00	2.41		100cc die-cast aluminum bowl w/ sight								<u>PDF</u>	
AFR2-4433	\$111.00	2.4	4 (0)	100cc polycarbonate with metal bowl guard			(23°F to 158°F	be ordered separately and field installed)				PDF	
AFR2-4433-AN	\$95.00	2.4	1/2"	100cc nylon with metal bowl guard								PDF	
AFR2-4433-AD	\$142.00	2.42		100cc die-cast aluminum bowl w/ sight								PDF	
AFR2-4433-A	\$128.00	2.28		100cc polycarbonate with metal bowl guard								PDF	
<u>AFR2-6633-D</u>	\$190.00	5.26	2/4"	Ť	Manual/Semi- Automatic	Automatic Automatic						PDF	
AFR2-6633-AD	\$154.00	5.29	3/4"	205cc die-cast	Automatic							PDF	
<u>AFR2-6833-D</u>	\$190.00	5.13	1"	aluminum bowl w/ sight	Manual/Semi- Automatic							<u>PDF</u>	
AFR2-6833-AD	\$207.00	5.27	'		Automatic							PDF	

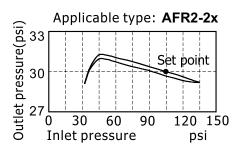
See our Web site www.AutomationDirect.com for complete Engineering drawings.

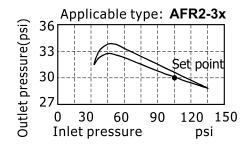


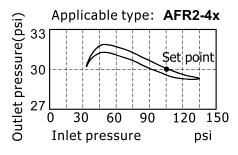
## Pneumatic Air Preparation - AFR2 Series Combination Filter and Regulators

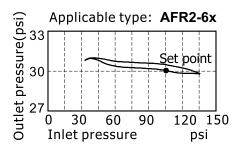
#### **Performance Charts**

#### **Pressure chart**



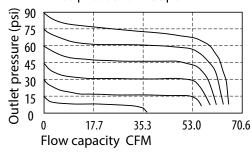


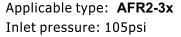


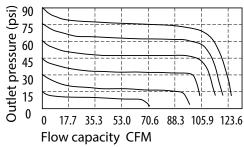


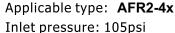
#### Flow chart

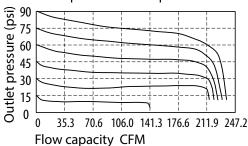
Applicable type: **AFR2-2x** Inlet pressure: 105psi



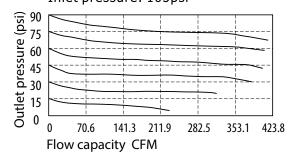








Applicable type: **AFR2-6x** Inlet pressure: 105psi

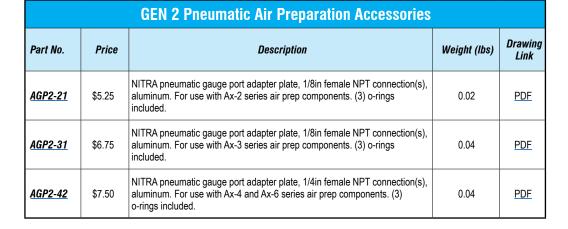




### **GEN 2 Pneumatic Air Prep Accessories**



Part No. AGP2-21





Part No. AGP2-31



Part No. AGP2-42

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Part No. ADB-21



Part No. AB-4T



Part No. AB-4L



Part No. AB-4U

	Pneumatic Air Preparation Accessories									
Part No.	Price	Description	Weight (lbs)							
<u>ADB-21</u>	\$18.00	NITRA pneumatic distribution block, 1/8in female NPT inlet(s), (3) 1/8in female NPT outlet(s). For use with Ax-21 series air prep components.	0.1							
<u>ADB-22</u>	\$18.00	NITRA pneumatic distribution block, 1/4in female NPT inlet(s), (3) 1/4in female NPT outlet(s). For use with Ax-22 series air prep components.	0.1							
<u>ADB-32</u>	\$25.50	NITRA pneumatic distribution block, 1/4in female NPT inlet(s), (3) 1/4in female NPT outlet(s). For use with Ax-32 series air prep components.	0.2							
<u>ADB-33</u>	\$25.50	NITRA pneumatic distribution block, 3/8in female NPT inlet(s), (3) 3/8in female NPT outlet(s). For use with Ax-33 series air prep components.	0.2							
ADB-44	\$27.00	NITRA pneumatic distribution block, 1/2in female NPT inlet(s), (3) 1/2in female NPT outlet(s). For use with Ax-44 series air prep components.	0.4							
<u>AB-2T</u>	\$16.50	NITRA modular T-bracket, for use with Ax-2 series air prep components.	0.2							
<u>AB-2L</u>	\$16.50	NITRA modular L-bracket, for use with Ax-2 series air prep components.	0.2							
<u>AB-2U</u>	\$16.50	NITRA modular U-bracket, for use with Ax-2 series air prep components.	0.1							
<u>AB-3T</u>	\$18.00	NITRA modular T-bracket, for use with Ax-3 series air prep components.	0.3							
<u>AB-3L</u>	\$18.00	NITRA modular L-bracket, for use with Ax-3 series air prep components.	0.3							
<u>AB-3U</u>	\$18.00	NITRA modular U-bracket, for use with Ax-3 series air prep components.	0.2							
<u>AB-4T</u>	\$22.00	NITRA modular T-bracket, for use with Ax-4 series air prep components.	0.5							
<u>AB-4L</u>	\$22.00	NITRA modular L-bracket, for use with Ax-4 series air prep components.	0.5							
<u>AB-4U</u>	\$22.00	NITRA modular U-bracket, for use with Ax-4 series air prep components.	0.4							
<u>AB-6T</u>	\$32.00	NITRA modular T-bracket, for use with Ax-6 series air prep components.	1.3							
<u>AB-6L</u>	\$30.00	NITRA modular L-bracket, for use with Ax-6 series air prep components.	1.2							
<u>AB-6U</u>	\$28.50	NITRA modular U-bracket, for use with Ax-6 series air prep components.	0.8							

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tNAP-51

tNAP-52



## **Pneumatic Air Preparation Accessories**



Part No. AFE2-43



Part No. AFE2-41



Part No. AFE-24



Part No. AFE-35

	Pneumatic Air Preparation Accessories								
Part No.	Price	Description	Weight (lbs)						
NITRA Gen 2 Particulate Filters									
<u>AFE2-23</u>	\$1.50	NITRA particulate filter element, replacement, 40 micron particles, high-density polyethylene (HDPE). For use with AF-2 series filters or AFR-2 series filter regulators.	0.01						
<u>AFE2-33</u>	\$3.00	NITRA particulate filter element, replacement, 40 micron particles, high-density polyethylene (HDPE). For use with AF-3 series filters or AFR-3 series filter regulators.	0.01						
<u>AFE2-43</u>	\$4.25	NITRA particulate filter element, replacement, 40 micron particles, high-density polyethylene (HDPE). For use with AF-4 series filters or AFR-4 series filter regulators.	0.01						
<u>AFE2-63</u>	\$11.00	NITRA particulate filter element, replacement, 40 micron particles, high-density polyethylene (HDPE). For use with AF-6 series filters or AFR-6 series filter regulators.	0.04						
<u>AFE2-21</u>	\$1.50	NITRA particulate filter element, replacement, 5 micron particles, high-density polyethylene (HDPE). For use with AF-2 series filters or AFR-2 series filter regulators.	0.01						
<u>AFE2-31</u>	\$3.00	NITRA particulate filter element, replacement, 5 micron particles, high-density polyethylene (HDPE). For use with AF-3 series filters or AFR-3 series filter regulators.	0.01						
<u>AFE2-41</u>	\$4.25	NITRA particulate filter element, replacement, 5 micron particles, high-density polyethylene (HDPE). For use with AF-4 series filters or AFR-4 series filter regulators.	0.01						
<u>AFE2-61</u>	\$11.00	NITRA particulate filter element, replacement, 5 micron particles, high-density polyethylene (HDPE). For use with AF-6 series filters or AFR-6 series filter regulators.	0.04						
		NITRA Coalescing Filters							
<u>AFE-24</u>	\$20.50	NITRA coalescing oil removal filter element, replacement, 0.3 micron particles, borosilicate glass microfiber. For use with AC-2 series coalescing filters.	0.05						
<u>AFE-34</u>	\$25.50	NITRA coalescing oil removal filter element, replacement, 0.3 micron particles, borosilicate glass microfiber. For use with AC-3 series coalescing filters.	0.05						
<u>AFE-44</u>	\$40.50	NITRA coalescing oil removal filter element, replacement, 0.3 micron particles, borosilicate glass microfiber. For use with AC-4 series coalescing filters.	0.1						
AFE-25	\$20.50	NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-2 series coalescing filters.	0.04						
AFE-35	\$25.50	NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-3 series coalescing filters.	0.05						
<u>AFE-45</u>	\$40.50	NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-4 series coalescing filters.	0.1						

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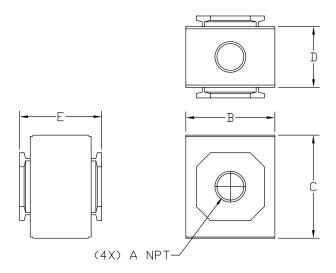


### **Dimensions**

mm [inches]

ADB-x

PART NO.	A NPT	DIM B	DIM C	DIM D	DIM E
ADB-21	1/8	30.0 [1.18]	36.0 [1.42]	19.5 [0.77]	28.5 [1.12]
ADB-22	1/4	30.0 [1.18]	36.0 [1.42]	19.5 [0.77]	28.5 [1.12]
ADB-32	1/4	38.0 [1.50]	44.0 [1.73]	26.0 [1.02]	35.0 [1.38]
ADB-33	3/8	38.0 [1.50]	44.0 [1.73]	26.0 [1.02]	35.0 [1.38]
ADB-44	1/2	52.0 [2.05]	52.0 [2.05]	30.0 [1.18]	42.0 [1.65]



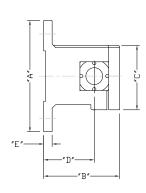
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### **Dimensions**

mm [inches]

AB-xT



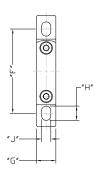
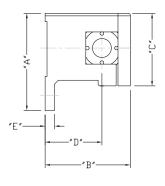


	TABLE 1									
PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"	DIM "J"	
AB-2T	66.0 [2.60)	45.0 [1.77]	38.3 [1.51]	30.0 [1.18]	5.0 [0.20]	50.0 [1.97]	11.5 [0.45]	8.5 [0.33]	5.5 [0.22]	
AB-3T	88.0 [3.46]	60.5 [2.38]	49.3 [1.94]	41.5 [1.63]	7.0 [0.28]	70.0 [2.76]	12.5 [0.49]	9.0 [0.35]	6.5 [0.26]	
AB-4T	104.0 [4.09]	76.0 [2.99]	58.5 [2.30]	50.0 [1.97]	7.0 [0.28]	80.0 [3.15]	15.5 [0.61]	12.0 [0.47]	8.6 [0.34]	
AB-6T	128.0 [5.04]	104.0 [4.09]	79.5 [3.13]	70.0 [2.76]	10.0 [0.39]	100.0 [3.94]	19.5 [0.77]	16.0 [0.63]	11.0 [0.43]	

#### AB-xL



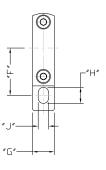


	TABLE 1										
PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"	DIM "J"		
AB-2L	51.3 [2.02]	45.0 [1.77]	38.3 [1.51]	30.0 [1.18]	5.0 [0.20]	25.0 [0.98]	11.5 [0.45]	8.5 [0.33]	5.5 [0.22]		
AB-3L	68.6 [2.70]	60.5 [2.38]	49.3 [1.94]	41.5 [1.63]	7.0 [0.28]	35.0 [1.38]	12.5 [0.49]	9.0 [0.35]	6.5 [0.26]		
AB-4L	79.5 [3.13]	76.0 [2.99]	58.5 [2.30]	50.0 [1.97]	7.0 [0.28]	40.0 [1.57]	15.5 [0.61]	12.0 [0.47]	8.6 [0.34]		
AB-6L	103.5 [4.07]	104.0 [4.09]	79.5 [3.13]	70.0 [2.76]	10.0 [0.39]	50.0 [1.97]	19.5 [0.77]	16.0 [0.63]	11.0 [0.43]		

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### **Dimensions**

mm [inches]

AB-xU

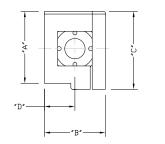




TABLE 1										
PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"					
AB-2U	35.5 [1.39]	30.0 [1.18]	38.3 [1.51]	15.0 [0.59]	11.5 [0.45]					
AB-3U	43.8 [1.72]	38.0 [1.50]	49.3 [1.94]	19.5 [0.75]	12.5 [0.49]					
AB-4U	52.5 [2.07]	52.0 [2.05]	58.5 [2.30]	26.0 [1.02]	15.5 [0.61]					
AB-6U	76.5 [3.01]	68.0 [2.68]	79.5 [3.13]	34.0 [1.34]	19.5 [0.77]					