

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



Modular Assembly Example





AFR2-6633-AD

<u>AFR2-3233-D</u><u>AFR2-2133-N</u>





Combination Filter-Regulator

Mounting bracket included.

NITRA<sup>®</sup> pneumaticcombination particulate/moistureseparation 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



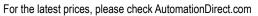
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## Pneumatic Air Preparation - AFR2 Series Combination Filter and Regulators

				AFR2 Series	s 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
<u>AFR2-2132-N</u>	\$65.00	0.82		25cc nylon with metal bowl guard					00.00 ·			<u>PDF</u>
<u>AFR2-2132-D</u>	\$75.00	0.85		25cc die-cast aluminum bowl w/ sight					20~60psi (0.14~0.41MPa) (1.4~4.1 bar)	60psi (0.41MPa) (4.1 bar)		<u>PDF</u>
<u>AFR2-2132</u>	\$65.00	0.83	1/8"	25cc polycarbonate with metal bowl guard				(1.4 4.1 00)	(4.1 bdi)		<u>PDF</u>	
<u>AFR2-2133-N</u>	\$65.00	0.83	1/0	25cc nylon with metal bowl guard					20~130psi (0.14~0.90MPa) (1.4~9.0 bar)	445'		<u>PDF</u>
<u>AFR2-2133-D</u>	\$75.00	0.86		25cc die-cast aluminum bowl w/ sight						145psi (1.0MPa) (10 bar)		PDF
<u>AFR2-2133</u>	\$65.00	0.84		25cc polycarbonate with metal bowl guard					(1.4 0.0 bar)	(10 bar)		<u>PDF</u>
<u>AFR2-2232-N</u>	\$65.00	0.82		25cc nylon with metal bowl guard	Manuall				00 00-ci	COnst		PDF
<u>AFR2-2232-D</u>	\$75.00	0.84		25cc die-cast aluminum bowl w/ sight	Manual/ Semi- Automatic				20~60psi (0.14~0.41MPa) (1.4~4.1 bar)	60psi (0.41MPa) (4.1 bar)		<u>PDF</u>
<u>AFR2-2232</u>	\$65.00	0.82		25cc polycarbonate with metal bowl guard	/ latomatio				(1.4 4.1 bul)			<u>PDF</u>
<u>AFR2-2233-N</u>	\$65.00	0.83		25cc nylon with metal bowl guard					20~130psi (0.14~0.90MPa) (1.4~9.0 bar)	145psi (1.0MPa) (10 bar)		<u>PDF</u>
<u>AFR2-2233-D</u>	\$75.00	0.86		25cc die-cast aluminum bowl w/ sight								<u>PDF</u>
<u>AFR2-2233</u>	\$65.00	0.84		25cc polycarbonate with metal bowl guard								<u>PDF</u>
<u>AFR2-3232-N</u>	\$74.00	1.34		60cc nylon with metal bowl guard					20~60psi (0.14~0.41MPa) (1.4~4.1 bar)			<u>PDF</u>
<u>AFR2-3232-D</u>	\$85.00	1.38		60cc die-cast aluminum bowl w/ sight						60psi (0.41MPa) (4.1 bar)	215psi (1.5MPa) (15 bar)	<u>PDF</u>
<u>AFR2-3232</u>	\$74.00	1.35	1/4"	60cc polycarbonate with metal bowl guard			-5°C to 70°C	40µ (5µ element can				<u>PDF</u>
<u>AFR2-3232-AN</u>	\$92.00	1.37	17-1	60cc nylon with metal bowl guard	Automatic	Air	(23°F to 158°F					<u>PDF</u>
<u>AFR2-3232-AD</u>	\$103.00	1.41		60cc die-cast aluminum bowl w/ sight								<u>PDF</u>
<u>AFR2-3232-A</u>	\$92.00	1.39		60cc polycarbonate with metal bowl guard		Manual/ Semi-						<u>PDF</u>
<u>AFR2-3233-N</u>	\$74.00	1.36		60cc nylon with metal bowl guard	Manual/				20~130psi (0.14~0.90MPa)	145psi (1.0MPa) (10 bar)		<u>PDF</u>
<u>AFR2-3233-D</u>	\$85.00	1.39		60cc die-cast aluminum bowl w/ sight								PDF
<u>AFR2-3233</u>	\$74.00	1.37		60cc polycarbonate with metal bowl guard								<u>PDF</u>
<u>AFR2-3233-AN</u>	\$92.00	1.39		60cc nylon with metal bowl guard					(1.4~9.0 bar)			<u>PDF</u>
<u>AFR2-3233-AD</u>	\$103.00	1.42		60cc die-cast aluminum bowl w/ sight	Automatic							<u>PDF</u>
<u>AFR2-3233-A</u>	\$92.00	1.4		60cc polycarbonate with metal bowl guard								<u>PDF</u>
<u>AFR2-3332-N</u>	\$74.00	1.33		60cc nylon with metal bowl guard	Manual/							<u>PDF</u>
<u>AFR2-3332-D</u>	\$85.00	1.37		60cc die-cast aluminum bowl w/ sight	Semi- Automatic							<u>PDF</u>
<u>AFR2-3332</u>	\$74.00	1.35	3/8"	60cc polycarbonate with metal bowl guard					20~60psi	60psi		<u>PDF</u>
<u>AFR2-3332-AN</u>	\$92.00	1.36	310	60cc nylon with metal bowl guard					(0.14~0.41MPa) (1.4~4.1 bar)	(0.41MPa) (4.1 bar)		<u>PDF</u>
<u>AFR2-3332-AD</u>	\$103.00	1.38		60cc die-cast aluminum bowl w/ sight	Automatic							<u>PDF</u>
<u>AFR2-3332-A</u>	\$92.00	1.38		60cc polycarbonate with metal bowl guard								<u>PDF</u>

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## PREJECT Preparation - AFR2 Series Combination Filter and Regulators

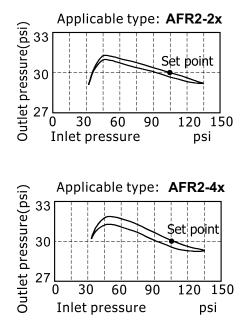
				AFR2 Series	Combinati	on F	ilter and R	egulators	Cont.			
Part No.	Price	Weight (lbs)	Port Size (FNPT)	Drain Bowl Capacity	Drain Type	Fluid	Temperature	Filtering Grade	Operating Pressure	Maximum Pressure	Proof Pressure	Drawing Link
<u>AFR2-3333-N</u>	\$54.00	1.34		60cc nylon with metal bowl guard								<u>PDF</u>
<u>AFR2-3333-D</u>	\$85.00	1.39		60cc die-cast aluminum bowl w/ sight	Manual/Semi- Automatic							<u>PDF</u>
<u>AFR2-3333</u>	\$74.00	1.37	3/8"	60cc polycarbonate with metal bowl guard								<u>PDF</u>
<u>AFR2-3333-AN</u>	\$92.00	1.37	5/0	60cc nylon with metal bowl guard				40μ (5μ element can be ordered separately and field installed)	20~130psi (0.14~0.90MPa) (1.4~9.0 bar)	145psi (1.0MPa) (10 bar)	215psi (1.5MPa) (15 bar)	<u>PDF</u>
<u>AFR2-3333-AD</u>	\$103.00	1.42		60cc die-cast aluminum bowl w/ sight	Automatic							<u>PDF</u>
<u>AFR2-3333-A</u>	\$92.00	1.4		60cc polycarbonate with metal bowl guard								PDF
<u>AFR2-4433-N</u>	\$116.00	2.33		100cc nylon with metal bowl guard								<u>PDF</u>
<u>AFR2-4433-D</u>	\$131.00	2.41		100cc die-cast aluminum bowl w/ sight								<u>PDF</u>
<u>AFR2-4433</u>	\$116.00	2.4	4.0"	100cc polycarbonate with metal bowl guard								<u>PDF</u>
<u>AFR2-4433-AN</u>	\$99.00	2.4	1/2"	100cc nylon with metal bowl guard								<u>PDF</u>
<u>AFR2-4433-AD</u>	\$149.00	2.42		100cc die-cast aluminum bowl w/ sight			c					
<u>AFR2-4433-A</u>	\$134.00	2.28		100cc polycarbonate with metal bowl guard								<u>PDF</u>
<u>AFR2-6633-D</u>	\$199.00	5.26	0/4"	~	Manual/Semi- Automatic							<u>PDF</u>
<u>AFR2-6633-AD</u>	\$161.00	5.29	3/4"	205cc die-cast	Automatic	lanual/Semi- Automatic						<u>PDF</u>
<u>AFR2-6833-D</u>	\$199.00	5.13	4"	aluminum bowl w/ sight	Manual/Semi- Automatic							<u>PDF</u>
<u>AFR2-6833-AD</u>	\$217.00	5.27	1"		Automatic							<u>PDF</u>

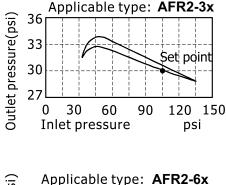
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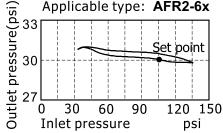
# Preumatics Preumatic Air Preparation - AFR2 Series Combination Filter and Regulators

#### **Performance Charts**

#### Pressure chart



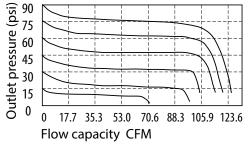




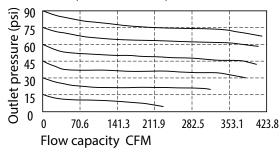
#### Flow chart

Applicable type: AFR2-2x Inlet pressure: 105psi 90 Outlet pressure (psi) 75 60 45 30 15 0 0 17.7 53.0 70.6 35.3 Flow capacity CFM Applicable type: AFR2-4x Inlet pressure: 105psi Outlet pressure (psi) 90 75 60 45 30 15 0 35.3 70.6 106.0 141.3 176.6 211.9 247.2 0

Applicable type: **AFR2-3x** Inlet pressure: 105psi



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



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Flow capacity CFM



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



Part No. AGP2-21



	GEN 2 Pneumatic Air Preparation Accessories										
Part No.	Price	Description	Weight (lbs)	Drawing Link							
<u>AGP2-21</u>	\$5.50	NITRA pneumatic gauge port adapter plate, 1/8in female NPT connection(s), aluminum. For use with Ax-2 series air prep components. (3) o-rings included.	0.02	<u>PDF</u>							
<u>AGP2-31</u>	\$7.00	NITRA pneumatic gauge port adapter plate, 1/8in female NPT connection(s), aluminum. For use with Ax-3 series air prep components. (3) o-rings included.	0.04	<u>PDF</u>							
<u>AGP2-42</u>	\$7.75	NITRA pneumatic gauge port adapter plate, 1/4in female NPT connection(s), aluminum. For use with Ax-4 and Ax-6 series air prep components. (3) o-rings included.	0.04	PDF							

Part No. AGP2-31



Part No. AGP2-42





Part No. <u>ADB-21</u>



Part No. <u>AB-4T</u>



Part No. <u>AB-4L</u>



Part No. AB-4U

Part No.PriceDescriptionADB-21\$19.00NITRA 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.ADB-22\$19.00NITRA 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.ADB-32\$26.50NITRA 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.	Weight (lbs)     0.1     0.1     0.2
ADB-21 \$19.00 outlet(s). For use with Ax-21 series air prep components.   ADB-22 \$19.00 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.   ADB-22 \$26.50 NITRA pneumatic distribution block, 1/4in female NPT inlet(s), (3) 1/4in female NPT	0.1
ADB-22 \$19.00 outlet(s). For use with Ax-22 series air prep components.   ADB-22 \$26.50 NITRA pneumatic distribution block, 1/4in female NPT inlet(s), (3) 1/4in female NPT	
	0.2
ADB-33\$26.50NITRA 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\$28.50NITRA 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> \$17.50   NITRA modular T-bracket, for use with Ax-2 series air prep components.	0.2
AB-2L   \$17.50   NITRA modular L-bracket, for use with Ax-2 series air prep components.	0.2
AB-2U   \$17.50   NITRA modular U-bracket, for use with Ax-2 series air prep components.	0.1
AB-3T   \$19.00   NITRA modular T-bracket, for use with Ax-3 series air prep components.	0.3
<u>AB-3L</u> \$19.00   NITRA modular L-bracket, for use with Ax-3 series air prep components.	0.3
AB-3U   \$19.00   NITRA modular U-bracket, for use with Ax-3 series air prep components.	0.2
<u>AB-4T</u> \$23.00   NITRA modular T-bracket, for use with Ax-4 series air prep components.	0.5
AB-4L   \$23.00   NITRA modular L-bracket, for use with Ax-4 series air prep components.	0.5
AB-4U   \$23.00   NITRA modular U-bracket, for use with Ax-4 series air prep components.	0.4
<u>AB-67</u> \$33.50   NITRA modular T-bracket, for use with Ax-6 series air prep components.	1.3
<u>AB-6L</u> \$31.50   NITRA modular L-bracket, for use with Ax-6 series air prep components.	1.2
<b><u>AB-6U</u></b> \$30.00 NITRA modular U-bracket, for use with Ax-6 series air prep components.	0.8





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>	\$3.25	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>	\$4.50	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>	\$11.50	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>	\$3.25	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>	\$4.50	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>	\$11.50	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>	\$21.50	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>	\$26.50	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>	\$42.50	NITRA coalescing oil removal filter element, replacement, 0.3 micron particles, borosilicate glass microfiber. For use with AC-4 series coalescing filters.	0.1							
<u>AFE-25</u>	\$21.50	NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-2 series coalescing filters.	0.04							
<u>AFE-35</u>	\$26.50	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>	\$42.50	NITRA coalescing oil removal filter element, replacement, 0.01 micron particles, borosilicate glass microfiber. For use with AC-4 series coalescing filters.	0.1							

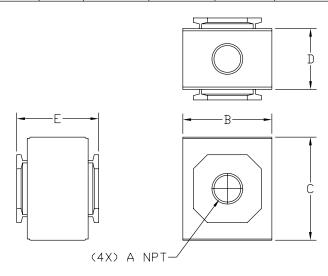


#### **Dimensions**

#### mm [inches]

ADB-x

PART ND.	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

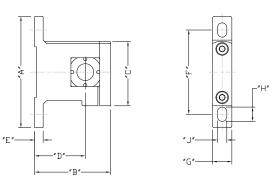


	TABLE 1										
PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"	DIM "J"		
AB-2T	66.0 [2.60)	45.0 [1.77]	38.3 [1.51]	30.0 [1.18]	5.0 [0.20]	50.0 [1.97]	11.5 [0.45]	8.5 [0.33]	5.5 [0.22]		
AB-3T	88.0 [3.46]	60.5 [2.38]	49.3 [1.94]	41.5 [1.63]	7.0 [0.28]	70.0 [2.76]	12.5 [0.49]	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

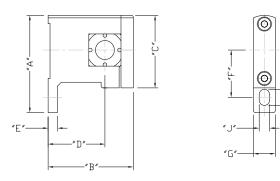


	TABLE 1											
PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"	DIM "G"	DIM "H"	DIM "J"			
AB-2L	51.3 [2.02]	45.0 [1.77]	38.3 [1.51]	30.0 [1.18]	5.0 [0.20]	25.0 [0.98]	11.5 [0.45]	8.5 [0.33]	5.5 [0.22]			
AB-3L	68.6 [2.70]	60.5 [2.38]	49.3 [1.94]	41.5 [1.63]	7.0 [0.28]	35.0 [1.38]	12.5 [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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-″H″



#### Dimensions

mm [inches]

AB-xU

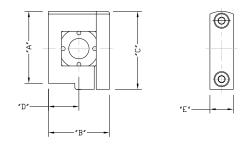


	TABLE 1											
PART NUMBER	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"							
AB-2U	35.5 [1.39]	30.0 [1.18]	38.3 [1.51]	15.0 [0.59]	11.5 [0.45]							
AB-3U	43.8 [1.72]	38.0 [1.50]	49.3 [1.94]	19.5 [0.75]	12.5 [0.49]							
AB-4U	52.5 [2.07]	52.0 [2.05]	58.5 [2.30]	26.0 [1.02]	15.5 [0.61]							
AB-6U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

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