



An Ingersoll Rand Business

BREATHE EASY WITH MAKO

trusted for uncompromised quality

MARKET LEADING BREATHING AIR SYSTEMS FOR:

Fire Services | Diving | Industrial Safety

We have been providing breathing air solutions for over 100 years. Continually improved technology ensures we are a trusted supplier to multiple industries, including fire & safety, recreational and professional diving, marine, offshore, and defense.

BREATHING AIR COMPRESSORS AND FILL STATIONS

Essentials

Whether it's everyday use or more demanding applications, all MAKO products guarantee the highest levels of **reliable performance, efficiency and safety** even within the constraints of space, noise, or budget. Exceeding industry standards, our range features the perfect model for any requirement.



Safety



Convenience



Cost
Efficiency



Flexibility

Compressors

Standard features:

- NEMA design ODP 1.15 SF electric motor
- Easy accessibility to all maintenance items
- Small package footprint and overall dimensions
- Auto-drain with muffler/reservoir system for collection of condensate
- Anti-vibration mounts
- Fully automatic control system

Instrumentation & controls:

- PLC controller
- Illuminated on/off push buttons
- Hours run meter
- Emergency stop button
- Inter-stage & final-stage pressure gauges
- Individual shutdown indicators for High Air Temperature, High Air Pressure, and Low Oil Level/Pressure

Optional equipment:

- Integrated or wall-mounted CO & Moisture (CMM) Monitor
- Audible shutdown alarm
- Dual pressure switch

Breathing Air Module [BAM]

For heavy-duty assignments

MAKO Breathing Air Module ensures **high capacity filling while maintaining low noise level**. Modular design ensures complete flexibility.

Standard features:

- MAKO MK2C purification system [models BAM04-BAM06H]
- MAKO MK5C purification system [models BAM07H-BAM09H]
- MAKO industrial-duty 3- or 4-stage compressor block
- Fully enclosed, sound attenuating enclosure with heavy-duty powder coat finish
- UL-listed, NEMA 12 electrical enclosure

Optional equipment:

- MK5C or MK10C purification [models BAM04-BAM06H]
- MK10C purification [models BAM07H-BAM09H]



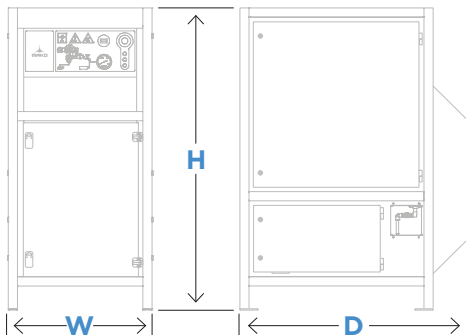
Technical Data

Model	Max Pressure		Stages	Charging Rate (0 - max pressure)			Compressor rpm	Drive		Weight		Sound Level dba
	bar	psi		m³/hr	l/min	cfm		kW	hp	kg	lb	
BAM04	350	5000	3	9.9	243	5.8	1300	4	5	461	1017	69
BAM05	350	5000	3	14.6	278	8.6	1300	5.5	7.5	471	1039	70
BAM06X	414	6000	4	16.7	278	10.2	1100	5.5	7.5	485	1070	72
BAM06H	414	6000	4	23.8	397	14	1340	7.5	10	526	1160	72
BAM07H	414	6000	4	35.2	587	20.7	1800	11	15	541	1193	74
BAM08H	414	6000	4	45.9	765	27	1530	15	20	576	1270	76
BAM09H	414	6000	4	56.4	940	33.2	1800	18.5	25	592	1305	78

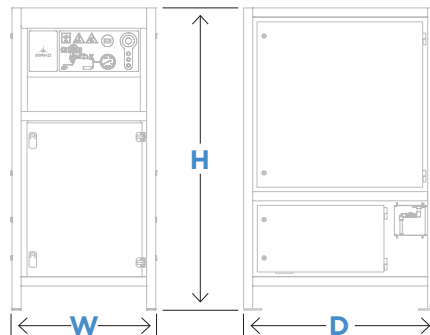
Dimensions (W × D × H)

Model	in	mm
BAM04, BAM05, BAM06H(X), BAM07H	31¼ × 42 × 65¾	794 × 1067 × 1673
BAM08H, BAM09H	31¼ × 50 × 65¾	794 × 1255 × 1673

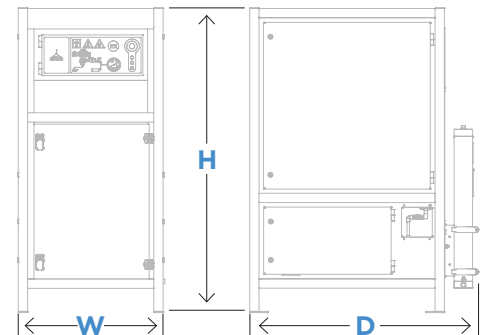
BAM08(H)



BAM04-BAM07(H)



BAM09(H)





Stationary Containment Fill Station (SCFS)

All-round efficiency

This series is designed for secure refill of SCBA and SCUBA cylinders. The SSCFS2 & SSCFS3 are NPA 1901-2016 and NFPA 1500-2021 compliant.

Standard features:

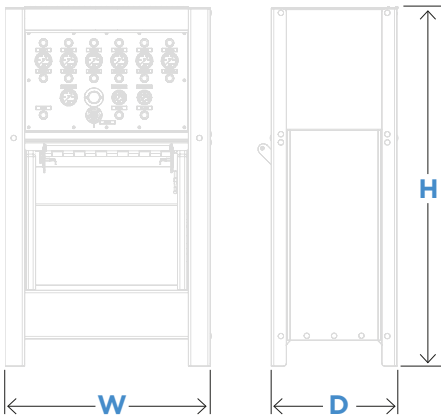
- 2 or 3 positions
- SCBA (SCFS) or SCUBA (SSCFS) compatibility
- 0-6000 psi “push action” regulator
- 3-Bank cascade control system allowing for simultaneous storage and cylinder filling
- Fill panel with easy to read silk screen overlay
- Inlet / outlet gauges
- Fill control valve and gauge
- Color-zoned gauges
- Regulated auxiliary outlet
- Fill whips with fill adapters
- Air storage bypass

Optional features:

- 3-4-Bank automatic cascading control
- Pressure selector valve
- Fire to SCUBA adapters
- Regulated Aux Outlet with Bypass
- Dual Regulator Fill Package
- Priority Fill Control Panel (Bulk Storage)

Dimensions (W × D × H)

Model	Dimensions (W × D × H)		Weight	
	In	mm	lbs	kg
SCFS2	29½ × 23½ × 66	750 × 597 × 1677	1010	458.13
SSCFS2 ¹	31 × 24 × 68	787 × 610 × 1726	1077	488.52
SCFS3	38½ × 23½ × 66	978 × 597 × 1677	1480	671.32
SSCFS3 ¹	41 × 24 × 68	1041 × 610 × 1726	1690	766.57



Mobile Containment Fill Station (MCFS)

The portable option

The steel chamber of the mobile fill station ensures complete safety when refilling cylinders in the field.

Standard features:

- 1, 2 or 3 positions
- SCBA (MCFS) or SCUBA (MSCFS) compatibility
- Single or dual pressure
- Fill whips with fill adapters

Optional equipment:

- Fire to SCUBA adapters
- 6” stand

Dimensions (W × D × H)

Model	Dimensions (W × D × H)		Weight	
	In	mm	lbs	kg
MCFS1	20½ × 23½ × 38½	521 × 597 × 978	362	164.2
MCFS2	29½ × 23½ × 38½	750 × 597 × 978	723	327.95
MSCFS2¹	31½ × 24½ × 40¾	800 × 622 × 1035	928	420.93
MSCF3	38½ × 23½ × 38½	978 × 597 × 978	1148	520.72
MSCFS3¹	41 × 24½ × 40¾	1041 × 622 × 1035	1405	637.3

Oxygen Containment Fill Station (Oxygen CFS)

The proven standard

Dedicated for oxygen canisters, the Oxygen CFS combines safety with simplicity of operation.

Standard features:

- 1 or 2 positions
- Fill whips with fill adapters (approved for oxygen use)
- Fill whip line valve(s)

Dimensions (W × D × H)

Model	Dimensions (W × D × H)		Weight	
	In	mm	lbs	kg
CFS1-OXY	20½ × 23½ × 44½	521 × 587 × 1131	362	164.2
CFS2-OXY	29½ × 23½ × 44½	750 × 587 × 1131	723	327.95



Modular Breathing Air Center (M-BAC)



The customizable choice

The Modular Breathing Air Center **complete air system solution** can be created and modified according to your requirements. The package includes an air compressor (BAM04-9H), a containment fill station, and a storage rack.

Standard features:

- Your choice of Breathing Air Module (BAM) compressor (refer to the BAM Standard Features and Optional Equipment sections for details)
- Your choice of stationary SCBA or SCUBA Containment Fill Station (CFS) (refer to the Stationary CFS Standard Features and Optional Equipment sections for details)

Package:

- MK5C or MK10C purification [models BAM04-BAM06H]
- MK10C purification [models BAM07H-BAM09H]

Optional equipment:

- 50', 75' or 100' spring rewind hose reel

Technical Data

Model	Max Pressure		Stages	Charging Rate (0 - max pressure)			Compressor rpm	Drive		Weight		Sound Level dba
	bar	psi		m ³ /hr	l/min	cfm		kW	hp	kg	lb	
BAM04	350	5000	3	9.9	165	5.8	1300	4	5	461	1017	69
BAM05	350	5000	3	14.6	243	8.6	1300	5.5	7.5	471	1039	70
BAM06X	414	6000	4	16.7	278	10.2	1100	5.5	7.5	485	1070	72
BAM06H	414	6000	4	23.8	397	14	1340	7.5	10	526	1160	72
BAM07H	414	6000	4	35.2	587	20.7	1800	11	15	541	1193	74
BAM08H	414	6000	4	45.9	765	27	1530	15	20	576	1270	76
BAM09H	414	6000	4	56.4	940	33.2	1800	18.5	25	592	1305	78w

Dimensions (W × D × H)

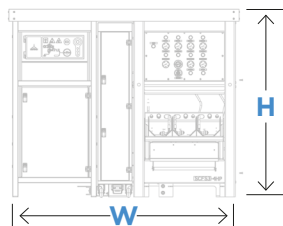
BAM with SCFS2 or SCFS3

Model	in	mm
BAM04-07H	86 × 45½ × 70	2185 × 1156 × 1778
BAM08-09H	86 × 52½ × 70	2185 × 1334 × 1778

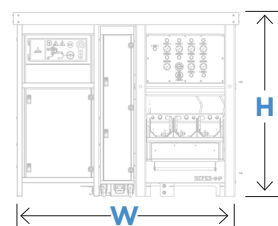
BAM with SSCFS2 or SSCFS3

Model	in	mm
BAM04-07H	90 × 45½ × 70	2286 × 1156 × 1778
BAM08-09H	90 × 52½ × 70	2286 × 1334 × 1778

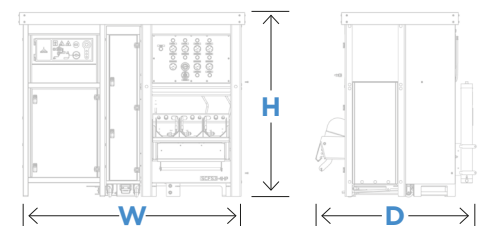
BAM04-BAM07(H)



BAM08(H)



BAM09(H)



EconoAir™ [EA]

The economical choice

MAKO EconoAir™ is the cost-saving solution that does not compromise on safety.

Standard features:

- MAKO industrial duty 3 or 4-stage compressor block
- MAKO MK2C purification system
- Open design, rugged structural steel frame with heavy duty powder coat finish

Optional equipment:

- MK5C purification
- Wall-mount CO & Moisture (CMM) Mounting System

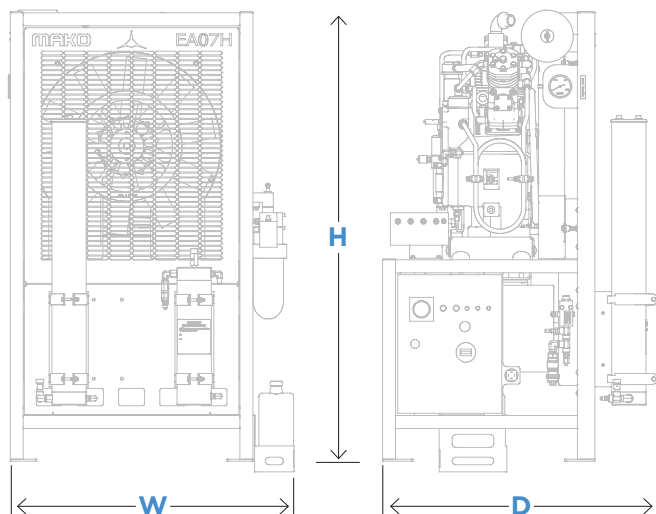


Technical Data

Model	Max Pressure		Stages	Charging Rate (0 - max pressure)			Compressor rpm	Drive		Weight		Sound Level dba
	bar	psi		m³/hr	l/min	cfm		kW	hp	kg	lb	
EA05	350	5000	3	14.6	243	8.6	1300	5.5	7.5	284	626	83
EA06X	414	6000	4	16.7	278	10.2	1100	5.5	7.5	255	560	84
EA06H	414	6000	4	23.8	397	14	1340	7.5	10	260	570	84
EA07H	414	6000	4	35.2	587	20.7	1800	11	15	266	585	85

Dimensions (W × D × H)

in	mm
31.7 × 32.6 × 52.0	806 × 829 × 1321





AirCharge [AC]

The compact variant

MAKO AirCharge is made with 5000 psi users in mind, ensuring flexibility and low noise levels.

Standard features:

- MAKO MK2C purification system
- MAKO industrial-duty 3-stage compressor block
- Fully enclosed, sound attenuating enclosure
- Heavy-duty powder coat finish
- UL-listed, NEMA 12 electrical enclosure

Optional equipment:

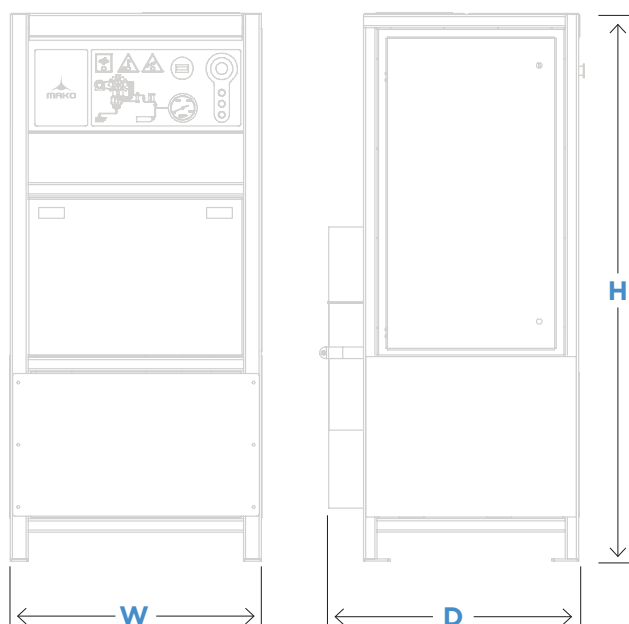
- MK5C purification

Technical Data

Model	Max Pressure		Stages	Charging Rate (0 - max pressure)			Compressor rpm	Drive		Weight		Sound Level dba
	bar	psi		m ³ /hr	l/min	cfm		kW	hp	kg	lb	
AC04	350	5000	3	9.9	165	5.8	1300	4	5	268	591	69
AC05	350	5000	3	14.6	243	8.6	1300	5.5	7.5	284	626	70

Dimensions (W × D × H)

in	mm
28¾ × 29½ × 61½	718 × 750 × 1562



Horizontal Breathing Air [HBA]

The low-profile model

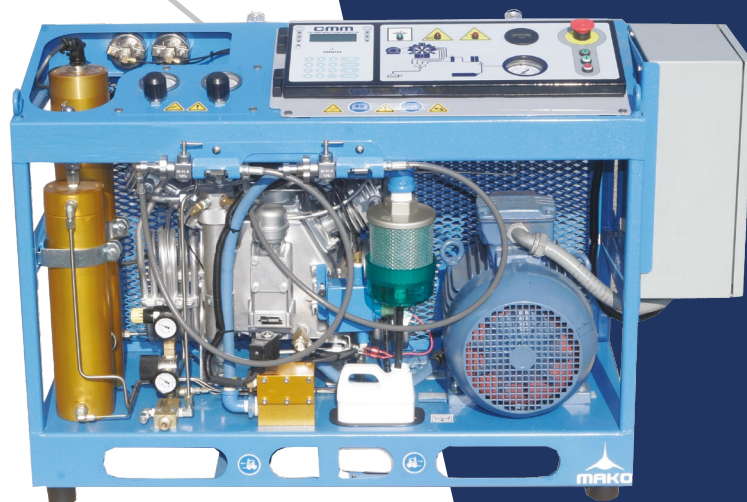
The open-frame **Horizontal Breathing Air** compressor provides all the features of MAKO designs, adapted for smaller spaces and tighter budgets.

Standard features:

- MAKO MK2C purification system [models HBA04-HBA06H]
- MAKO MK5C purification system [models HBA07H-HBA09H]
- MAKO industrial-duty 3- or 4-stage compressor block
- Open design, rugged structural steel frame with heavy duty powder coat finish
- UL-listed, NEMA 12 electrical enclosure

Optional equipment:

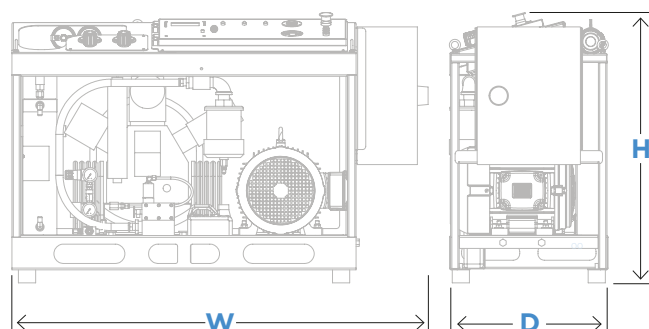
- MK5C or MK10C purification [models HBA04-HBA06H]
- MK10C purification [models HBA07H-HBA09H]



Technical Data

Model	Max Pressure		Stages	Charging Rate (0 - max pressure)			Compressor rpm	Max. integrated fill hoses	Electric Power		Electric Weight		Dimensions W x D x H	
	bar	psi		m ³ /hr	l/min	cfm			kW	hp	kg	lb	in	mm
HBA04	350	5000	3	9.9	165	5.8	1300	2	4	5	200	435	48.4 × 18.5 × 31.5	1230 × 470 × 801
HBA05	350	5000	3	14.6	243	8.6	1300	2	5.5	7.5	210	460	48.4 × 18.5 × 31.5	1230 × 470 × 801
HBA06H*	414	6000	4	23.8	397	14	1340	4	7.5	10	315	690	58 × 28.4 × 42.5	1474 × 722 × 1080
HBA07H*	414	6000	4	35.2	587	20.7	1800	4	11	15	335	735	58 × 28.4 × 42.5	1474 × 722 × 1080
HBA08H*	414	6000	4	45.9	765	27	1530	4	15	20	380	835	62 × 41.4 × 46.4	1575 × 1052 × 1179
HBA09H*	414	6000	4	56.4	940	33.2	1800	4	18.5	25	400	880	62 × 41.4 × 46.4	1575 × 1052 × 1179

* Control box is mounted within the frame.





Water-Cooled Packages

The 24/7 option

Water-cooled packages are **resilient and durable** but also keep low noise levels, for higher comfort of use over time. These models are designed for the most demanding applications where continuous high-capacity operation is required.

Standard features:

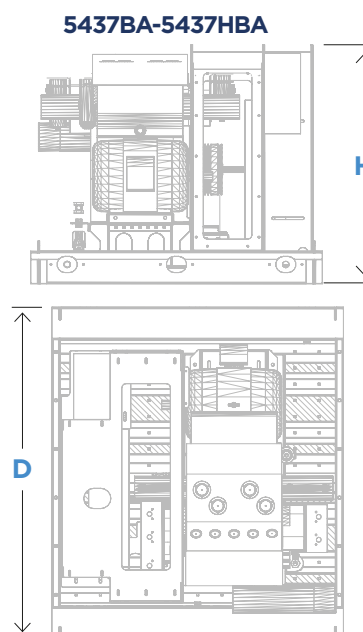
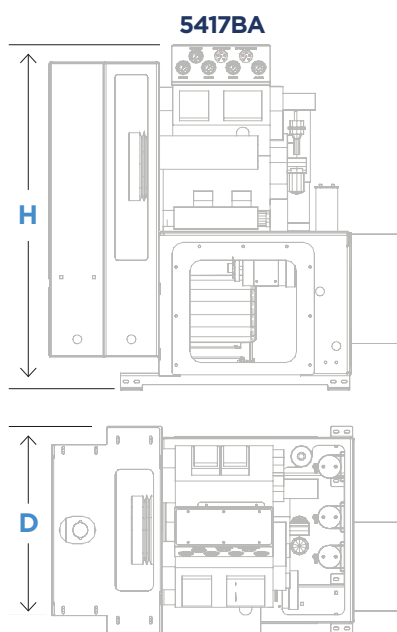
- MAKO MK10C purification system (model 5417)
- MAKO MK420C purification system (models 5437 and 5437H)
- MAKO industrial 4-stage compressor block
- Compressor cooling system built into block for improved efficiency
- Closed loop cooling system integrated to compressor skid

Technical Data

Model	Max Pressure		Stages	Charging Rate (0 - max pressure)			Compressor rpm	Drive		Weight	
	bar	psi		m ³ /hr	l/min	cfm		kW	hp	kg	lb
5417BA	345	5000	4	74	1233	44	1800	30	40	1320	2900
5437BA	345	5000	4	143	2380	84	1500	55	75	2177	4800
5437HBA	414	6000	4	144	2400	85	1500	55	75	2177	4800

Dimensions (W × D × H)

Model	in	mm
5417BA	70¾ × 41¼ × 66	1797 × 1048 × 1677
5437BA, 5437HBA	72 × 84¾ × 61¾	1829 × 2153 × 1569



ACCESSORIES



Air Storage

The air storage is a **perfect solution for refilling SCBA/SCUBA cylinders** without the use of a compressor.

Available options:

- Horizontal or vertical storage tanks
- Configurations of 2, 3, 4, 5 or 6 cylinders
- UN or ASME storage cylinders

Cascade Controls

For maximum efficiency, Cascade Controls can be **used to simultaneously refill a storage bank and a SCBA cylinder**. Integrated and remotely-mounted options are available.

Available options:

- Automated system
- Minimized risk of operator error
- Simplified filling operation
- Complete control of air storage consumption and replenishment

CO & Moisture Monitor (CMM)

MAKO monitors ensure that the breathing air is safe to use, alerting you to excess CO and moisture levels.

Standard features:

- Easy-to-use interface
- Straightforward CO sensor/cell replacement
- Automatic shutdown
- Automatic calibration - the CO sensor automatically adjusts to ensure accurate measurement of CO by checking itself against two preset levels

Optional monitors:

- CO only
- Moisture only
- Wall-mounted (remote)

Technical data

CD Monitor Performance	
Detection range	0-100 ppm
Factory alarm setting	5 ppm
Display type	LCD
Alarms	Visual: LEDs and digital LCD Audible: Case-mounted horn



WARRANTY & OEM SPARE PARTS



Warranty

MAKO products are built to last. In case any replacements are required, take advantage of our warranty to ensure the best performance of your equipment.

Product Warranty Options

Standard: 24 months:

All products include a standard warranty on manufacturing and performance under normal operating conditions. Factory new products are issued as a replacement. The warranty period is twenty-four (24) months from initial start-up or thirty (30) months from shipment by MAKO.

MAKO⁵

5-YEAR EXTENDED WARRANTY

Extended: 5 years:

(optional, USA and Canada only)

Available exclusively to the municipal fire industry, the MAKO5 warranty ensures 5-year coverage for our full line of stationary breathing air compressors, containment fill stations, air storage systems, and select accessory products.

OEM replacement parts

All MAKO products feature dedicated proprietary and consumable parts. To ensure the highest levels of safety and performance, we provide genuine MAKO replacements, available through authorized resellers and servicing distributor partners.

Compressor notes

1. All technical details are subject to change.
2. Performance figures are typical and are not the full range available.
3. Figures based on inlet conditions of 20 °C/68 °F, 1,013 Bar/14.7 PSL.
4. Charge rates measured in accordance with Reavell standard No. 27 Type 'A'.
5. Electric motors are available in 50 & 60 Hz. Single & 3 Phase versions and with multiple voltage options.
6. Tested and certified to equivalent of UL 1450 Standards.
7. Sound pressure level at 1m/3 ft.

CFS (Containment Fill Station) notes

1. All technical details are subject to change.
2. Select model fill stations are certified to NFPA 1901-2016.
3. Rupture test certificates are available on request.

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