

# STAR Series Mobile Air Trailers

SYSTEM, TRANSPORTABLE AIR REFILL

The STAR Refill Trailer is a mobile compressed air storage bank, that provides quick and safe SCBA fills at the incident scene. With no chance of contamination from ambient smoke or fumes, the STAR can provide up to 100 full cylinders. (Actual number depends on SCBA capacity, rated pressure, and how depleted the cylinder is before being charged.)

Since the system is CLOSED LOOP, there is no stage during the recharge process where surrounding air can jeopardize the breathing air. The clean safe air you pumped at the station is the clean safe air you get at the scene.

The STAR 100 provides @5250 cubic feet compressed air in twelve 4500psi DOT/UN cylinders. The STAR 70 delivers @3935 cubic feet of air, in nine 4500psi DOT/UN cylinders.

SCBAs are filled in a two-position BAUER containment-style fill station, to meet NFPA1901 guidelines. The 58985-2 booster pump maximizes the stored air, allowing complete fills even after the stored air pressure drops below the SCBA maximum.

- STAR systems come in a 7' x 12', enclosed, heavy duty trailer.
- Easily towed. Total weight only 5300 lbs (STAR 100) or 4700 lbs (STAR 70).
- Operator fills and controls the cylinders sheltered in the unit.
- Completely safe operation.
- Convenient exchange of empty & full cylinders.



**STAR 70 Deluxe shown**  
Operator works *inside* filling SCBAs in the containment-style fill station.

10/14



## BREATHING AIR SYSTEMS

8855 E. Broad St., Reynoldsburg, OH 43068 - Phone: (614) 864-1235  
SALES: (800) 937-2479 FAX: (614) 864-0071 sales@breathingair.com

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Service facilities throughout the United States



**ENCLOSED TRAILER, 7'x12', heavy duty. Standard factory color**

With: Tandem (dual) drop axles, H78x15 tires

- Electric brakes with breakaway switch
- Running lights, brake lights, turn signals, connector
- Double rear doors, heavy-duty cam lock bar
- Transfer jack, rear stabilizer jacks
- Curb-side door, 32", with lock, for transfer rack
- Interior lights, with battery - Deep cycle
- Vinyl floor covering, paneled interior walls
- LOAD RATING, 4500 lbs. (GVWR 7000 lbs.)

**12 CYLINDER, 4500 psi 5250 cu. ft. DOT/UN Cascade System (STAR 100), or 9 CYLINDER, 4500 psi 3935 cu. ft. DOT/UN Cascade System (STAR 70)**

With: Wall mounted double heavy-duty clamp and rail system

All plumbing connections, hoses, etc.

Easy connection refill port, 35' H.P. compressor hose

**BOOSTER PUMP, pneumatically operated Haskel brand 6000psi**

With: Control valve on Fill Station Panel. No need for outside power source

**FILL STATION, Class 2 containment-style 2 position fill station**

With: Gauge Panel, Booster Control, Designed and Tested for full containment of fragments. NFPA 1901 compliant, ISO 9003 Quality Management

**STORAGE RACK, for 15 SCBA cylinders**

With: Easy-function pass-thru steel rack, Diamond plate sides, Steel top and interior door cover.



The STAR trailers arrive at the scene with 15 full SCBA cylinders ready to replace those being used by the emergency personnel. (NOTE: SCBA cylinders are not included.) They are carried in the pass-thru storage and transfer rack.

The operator works in a dry, comfortable area protected from the weather. When a SCBA cylinder is depleted, the tank is passed VALVE FIRST into the transfer rack, pictured at right. The operator will refill any cylinders with the valve facing him (picture left).

Once recharged, the SCBA is again placed in the transfer rack valve first; now the valve is facing outward. People outside know that any SCBAs with the valve facing them are full.

The storage cylinders come equipped with M2753 valve protectors, to satisfy NFPA 1901. The fills are done in the Class 2 Containment-Style fill Station (below), which protects the operator and other personnel in case of a cylinder rupture.



The table below shows how many full SCBA fills available from the STAR 100 and the STAR 70.

SCBA Size	STAR 100	STAR 70
30 min 2216 psi	100	70
30 min 4500 psi	65	50
60 min 4500 psi	29	22



**OPTIONAL ALUMINUM TRAILER**  
 Lighter weight, Less Corrosion  
 Many other options available

*The STAR system is fully assembled, tested, filled with Grade E air, and ready to use upon delivery.*

## SUGGESTED PURCHASING SPECIFICATIONS

MADE IN AMERICA

### BREATHING AIR SYSTEMS STAR SERIES OF MOBILE TRAILERS

- 1. TRAILER.** Enclosed and highway rated, the trailer shall be commercially built. (A one of a kind custom fabrication is unacceptable). The unit will be 7' x 12', totally enclosed and built to be used as a one man operation. The trailer will also have no inside wheel wells. It will have extra supports for mounting equipment, and come with a curb-side door, double opening rear doors, one (1) roof vent, four (4) interior lights with wall switch, floor covering, electric brakes and a 12 volt marine-style battery system. The trailer also includes a properly rated hitch and vehicle to trailer electrical connection with a load rating of 5000 pounds/GVW rating of 7000 pounds. All installed equipment shall be tested and ready to use when delivered, and shall include the following:
- 2. CASCADE/STORAGE.** The storage system will consist of new 4500 psi DOT/UN rated cylinders that will be secured in a vertical position by a double mounting rail system and tied into the trailer rib system. *The STAR 100 will have twelve (12) storage cylinders; the STAR 70 will have nine (9).* Each tank will have a current manufacturer's date and deluxe chrome plated valves and all plumbing hose and fittings will be installed and tested. All manifold tees and pipe fittings will be stainless steel and all hoses will be rated at least 5000 psi and have a 4 to 1 safety factor. Each tank will also have a valve protection device to protect against incidental contact with the valve and meet NFPA 1901 standards. All hoses will be secured and a protective cover will be used in areas vulnerable to damage.
- 3. HASKEL BOOSTER, (Pneumatic Model 58985-2).** The Booster will be self-contained and have no moving parts exposed to the operator. The Booster shall be air driven and powered by the air in the provided Cascade/Storage System. (No outside power source will be needed.) The system shall be capable of boosting a supply as low as 1000 psi back up to 4500 psi. The unit will be secured, plumbed and tested into the trailer system with the exhaust air piped to the outside.
- 4. FILLING STATION.** A Class 2 Containment-style Dual Fill Station will be provided. The system will be designed and tested to meet NFPA 1901 standards for containment. The fill station will be capable of filling 2 SCBA or SCUBA cylinders at the same time. The system will be equipped with a 3-way pneumatic interlock system so that the cylinder cannot be filled unless the tilt-out door is in the closed and locked position. A control panel will be located on the fill station and be equipped with all necessary controls including a booster control to eliminate the need to cascade and add efficiency to the filling procedure.
- 5. 15 POSITION (SCBA) STORAGE/TRANSFER RACK.** A heavy duty dual purpose rack shall be provided to (a) transport spare or extra SCBAs to the scene, or (b) to be used as a Transfer Rack. The Rack will be constructed of a heavy duty, painted steel frame, schedule 80 PVC transport tubes, Aluminum Diamond Plate sides and interior door with a 1/4" plate steel top and work area.
- 6. SYSTEM REFILL HOSE.** A 35 foot Refill Hose shall be provided to refill the STAR 70 System from a remote compressor. The refill hose shall include a male and female CGA Fill Adapter, a Shut-off Valve and Bleeder. A hanger will be provided to store the hose while not in use.

**Note: More detailed specifications are available upon request.**

#### OPTIONS:

- A. Deluxe STAR Package:** For more interior lights and roof vents, heavy duty skid resistant diamond plate floor, stone guard, white interior ceiling and walls for much better illumination.
- B. Longer Trailer or Custom Design Interiors** with cabinets or work areas are available.

**Call for Quote, 1-800-937-2479. Prices and Specifications are subject to change without notice**



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