

Introduction

This document provides the instructions to disconnect a faulty compressor motor and/or bypass a Membrane Dryer Assembly of an AirStar Dental Air System using the Motor and Dryer Bypass Kit, part number 85003. This allows the AirStar to be partially operational while a service technician repairs the unit. These instructions cover all AirStar models. Please note that two kits are needed to fully perform the tasks on an AS70 and AS100. Servicing should only be done by an authorized dealer service technician.

Important:

Make sure to remove all power to the AirStar while removing the motor to be serviced or bypassing the Membrane Dryer.

Motor Dropout - disconnect a compressor motor from the AirStar air pressure circuit by performing the following steps.

- Turn off power to the AirStar by placing the circuit breaker and all Motor Power switches to OFF.
- Remove the braided steel hose of the motor to be serviced from the Tee connector port.
- If the system uses threaded hoses, perform step c.(1.). Proceed to step c.(2.) when the hose connections are Push to Connect fittings
 - Install the supplied 1/4 Inch MNPT Brass Plug fitting into the threaded Tee connector port.
 - Insert the supplied 10mm Push to Connect plug fitting into the Tee connector port.
- Remove or repair the motor as needed.
- Apply power to the AirStar by placing the circuit breaker and Motor Power switch to ON. Make sure to leave the Motor Power switch for the faulty motor in the OFF position.

Important:

The AirStar should only be operated temporarily without a Membrane Dryer. Extended operation will cause moisture to accumulate throughout facility plumbing.

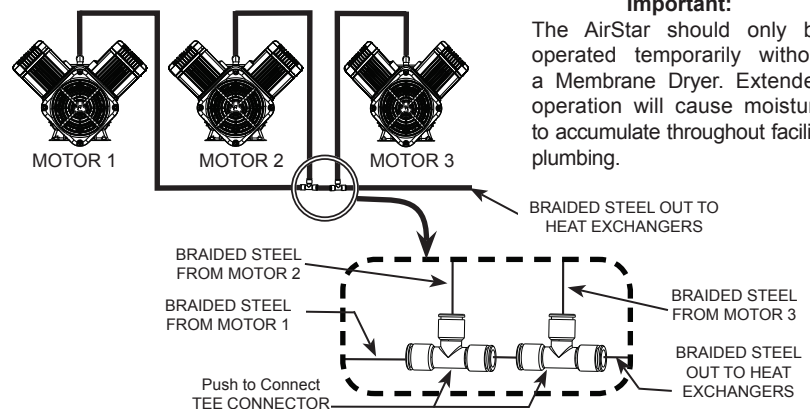
Membrane Dryer Bypass - bypass the Membrane Dryer from the air pressure circuit by performing the following steps.

- Turn off power to the AirStar by placing the circuit breaker and all Motor Power switches to OFF.
- Remove the 10mm input and 12mm output tubes from the Membrane Dryer by pressing and holding the corresponding Push to Connect body and pulling out each tube.
- Join the 10mm input and 12mm output tubes using the supplied 10mm Female to 12mm Female Push to Connect Adapter.
- Remove or replace the dryer as needed.
- Apply power to the AirStar by placing the circuit breaker and Motor Power switches to ON.

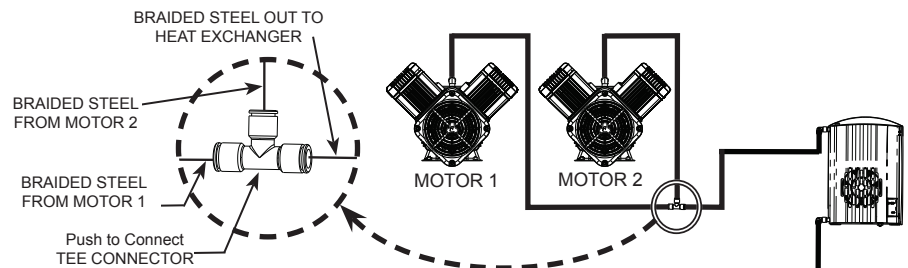
Components Supplied in Kit, P/N 85003

Part No.	Description	Qty
85028	10mm Push to Connect Plug Fitting.	1
85029	120mm Push to Connect Plug Fitting.	1
86773	10mm Female To 12mm Female Push to Connect Adapter.	1
64021	1/4 Inch MNPT Brass Plug	1

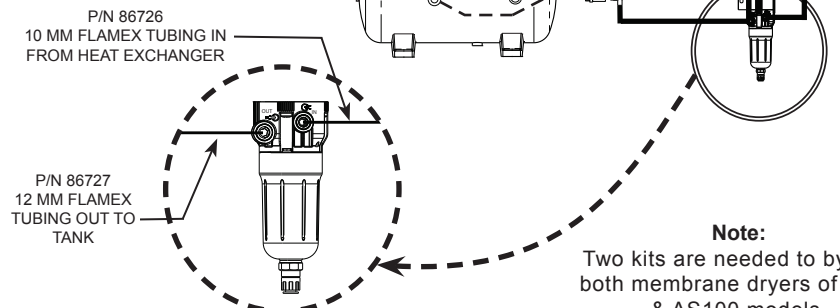
① AS70 Motor Dropout



② AS30, AS40, AS50 & AS100 Motor Dropout



③ AS30, AS40 & AS50 Membrane Dryer Bypass



Important:

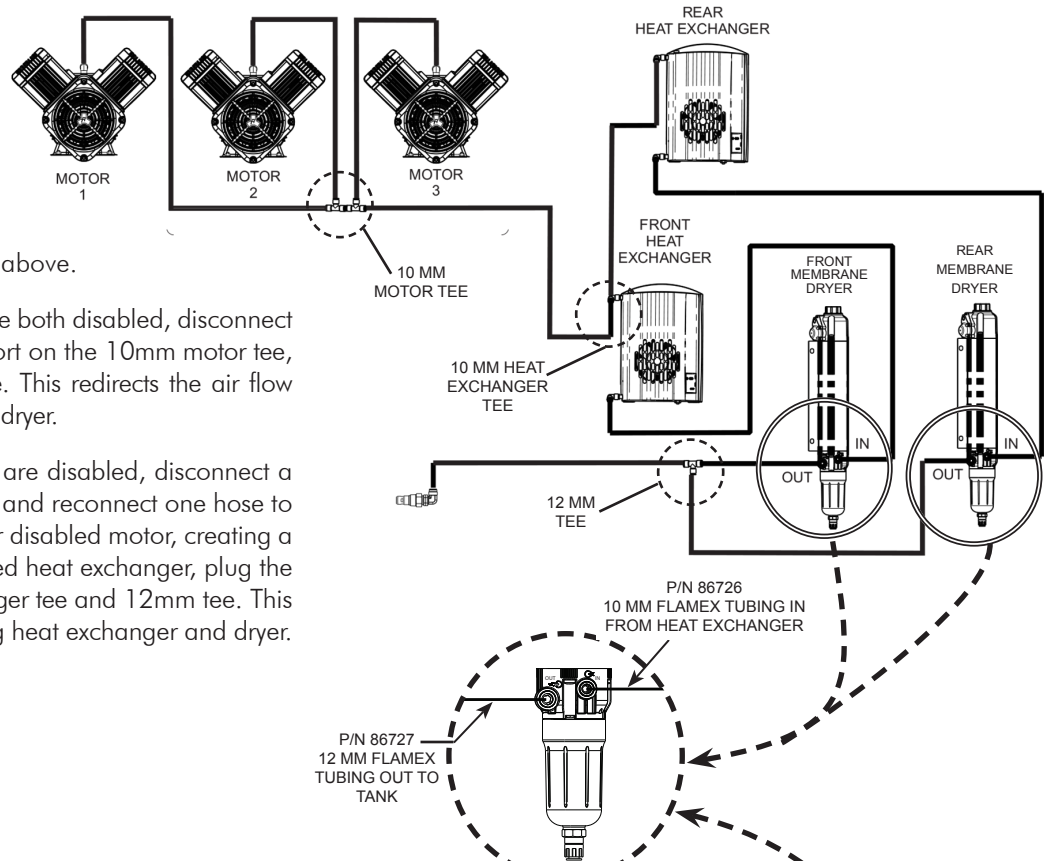
The AirStar should only be operated temporarily without a Membrane Dryer.
Extended operation will cause moisture to accumulate throughout facility plumbing.

Note: Two kits are needed to bypass both membrane dryers of AS70 & AS100 models.

Membrane Dryer Bypass - bypass the Membrane Dryer from the air pressure circuit by performing the following steps for both AS70 and AS100 models.

- Turn off power to the AirStar by placing the circuit breaker and all Motor Power switches to OFF.
- Remove the 10mm input and 12mm output tubes from the Membrane Dryer by pressing and holding the corresponding Push to Connect body and pulling out each tube.
- Join the 10mm input and 12mm output tubes using the supplied 10mm Female to 12mm Female Push to Connect Adapter.
- Remove or replace the dryer as needed.
- Apply power to the AirStar by placing the circuit breaker and Motor Power switches to ON.

④ AS70 Membrane Dryer Bypass & Motor Dropout

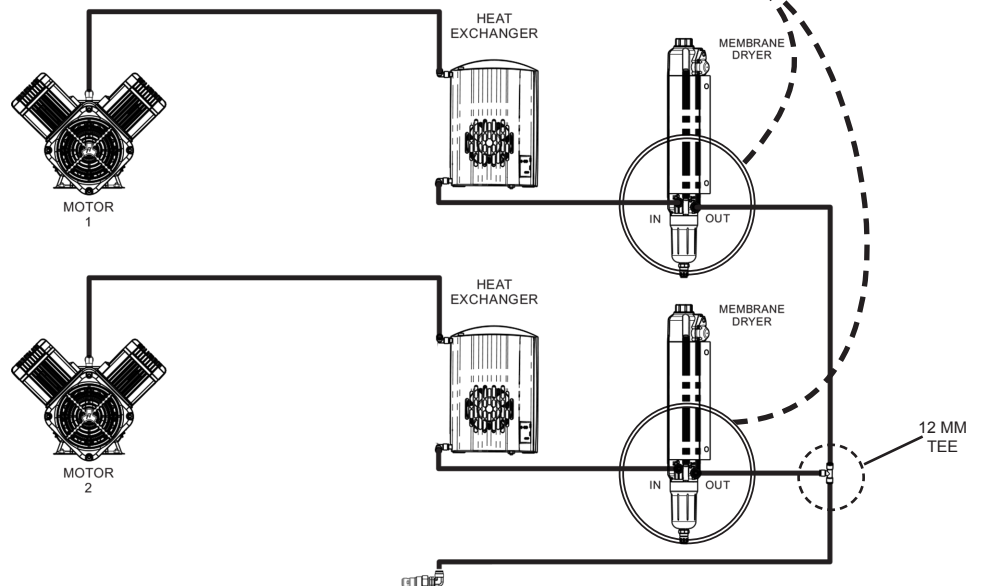


Follow the Membrane Dryer Bypass steps above.

Condition 1: If one motor and one dryer are both disabled, disconnect the associated heat exchanger, plug the port on the 10mm motor tee, 10mm heat exchanger tee and 12mm tee. This redirects the air flow through the remaining heat exchanger and dryer.

Condition 2: If two motors and one dryer are disabled, disconnect a braided steel hose from a disabled motors and reconnect one hose to the port of the tee associated with the other disabled motor, creating a closed loop. Then disconnect the associated heat exchanger, plug the associated port on the 10mm heat exchanger tee and 12mm tee. This redirects the air flow through the remaining heat exchanger and dryer.

⑤ AS100 Membrane Dryer Bypass



17 In.	11 In.
11 In.	8 1/2 In.

☐ 8 1/2" x 11" Book

☐ 8 1/2" x 5 1/2" Book

8 1/2 In.
☒ 11 in.
☐ 14 in.

11 In.
17 In.
Binding Edge

☐ Print Single Side

☒ Print Double Side

☐ No Hole Punch

☐ 3-Hole @ Binding Edge

Application File Type:

- | | |
|---|---------------------------------------|
| ☒ In Design | ☐ Quark XPress |
| ☒ PDF (for viewing) | ☐ MS Word |
| ☐ CorelDraw | ☐ WordPerfect |

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☐ Manuals ☒ Instructions

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Total sheets: 1 8.5 X11 sheet

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☐ Custom			

Print Black & White

Additional Options:

- ☐ Print in Color
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- ☐ UV Coat Both Sides
- ☐ Laminate
- ☐ 3-Hole Binding
- ☐ Single hole punch left corner front side
- ☐ Spiral Bound Booklets
- ☐ Wire-O Booklets (Metal Coil Binding)

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ORIGINAL

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MATERIAL SEE RQMTS		TITLE Motor & Dryer Bypass Kit Installation Guide	
FINISH SEE RQMTS			
DATE 01/16/19	SIZE A	PART NO. 85003	REV B