

## Invacare HomeFill Station

Client:		
Step	Details	Complete (check)
Concentrator Prep - Warm Up	<b>Allow concentrator to warm up for at least 10 minutes.</b> Make sure the switch on the Homefill Compressor (top unit) is in the <b>OFF</b> position.	
Concentrator Prep - Tubing	Verify the tubing that goes from the concentrator to the Homefill Compressor is attached and that the Homefill Compressor power cord is plugged in to the wall.	
Concentrator Prep - Flow Rate	Adjust the flow meter on the concentrator to the patient's prescribed setting. <b><u>The prescribed setting must be less than 3 liters for a 5-liter concentrator, or 5 liters or less for a 10-liter concentrator.</u></b>	
Cylinder Prep - PSIG	Make sure the cylinder contents gauge is at <b>1500 psi or less</b> . If it is above 1500 psi, either bleed off some oxygen or use the cylinder until the needle is below 1500 psi.	
Cylinder Prep - Inspection	Perform a Cylinder Prefill Inspection. (Checking for damage and signs of heat). Refer to the operating manual for details. Remove the regulator from the cylinder.	
Cylinder Prep - Valve/Toggle	Make sure the cylinder valve/toggle is in the OFF position, <b><u>"righty tighty lefty loosy"</u></b>	
HomeFill Station - Silver Coupler	Remove the cap from the silver coupler on the compressor then push down on the coupler collar.	
HomeFill Station - Seating Cylinder	Insert the cylinder fitting in to the coupler and push the cylinder down firmly. At the same time, pull up on the coupler collar to make sure the cylinder is securely connected.	

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Step	Details	Complete (check)
HomeFill Station - Power On	Once the cylinder is properly seated, turn the compressor on by flipping the switch.	
HomeFill Station - Lights	<ul style="list-style-type: none"> <li>• The <b>O2 BELOW NORMAL</b> will be on for approximately 3 minutes prior to the compressor starting to fill the cylinder. This is on while the Homefill tests the O2 coming from the Concentrator to ensure Medical Grade Quality. It will go out when test is complete, and the light will switch to <b>FILLING</b>.</li> <li>• The <b>FILLING</b> light will be on while cylinder is being filled. Filling could take several hours depending on the cylinder size.</li> <li>• The <b>FILLING</b> light will go out and the <b>FULL</b> light will come on when the cylinder is full.</li> </ul>	
HomeFill Station - Powering Off	Turn the HomeFill Station switch to the <b>OFF</b> position.	
HomeFill Station - Releasing Cylinder	Push down on the silver coupler collar and at the same time pull upward on the cylinder to release it.	
Filling Multiple Cylinders	Complete steps 3-12 if another cylinder needs to be filled. The HomeFill Station <b>MUST</b> be turned off between each cylinder change.	
Cylinder Fill Times	<u>Cylinder Approximate Fill Times</u> E- 5.75 hours D- 3.50 hours M9- 2.25 hours	
Maintenance - Filter	1/week, turn off compressor, unplug unit, remove filter, rinse under water, squeeze dry with paper towel, install filter.	
Maintenance - Compressor Cabinet	As needed, turn off compressor, unplug unit, wipe cabinet with mild dish detergent and water, dry with paper towel.	

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Maintenance - Regulator Washer	The regulator washer will need to be replaced periodically to reduce or stop leaking. Remove old one using a flat object such as a flat screwdriver and replace.	
Troubleshooting	<b>Problem</b>	<b>Solution</b>
	No indicator lights on when compressor turned On.	<ol style="list-style-type: none"> <li>1. Turn compressor Off.</li> <li>2. Check that power cord is properly plugged into compressor and wall outlet.</li> <li>3. Turn the compressor On.</li> <li>4. Clean air filters. 5.4 Refer to Cleaning the Compressor Filter on page 33, page 23.</li> <li>5. If performing Steps 1-4 does not cause any indicator lights to come on, contact your home health care provider or Invacare for service.</li> </ol>
	RED Light On	<ol style="list-style-type: none"> <li>1. Check the cylinder gauge to see if it is full: <ul style="list-style-type: none"> <li>• Cylinder full - Remove the cylinder and turn the unit Off. Perform the 4.1 Cylinder Prefill Inspection on page 20, page 17 with a cylinder that is not full.</li> <li>• Cylinder not full - Proceed to Step 2.</li> </ul> </li> <li>2. Check that the cylinder is connected properly.</li> <li>3. Turn the compressor Off.</li> <li>4. Remove the cylinder and reinstall.</li> <li>5. Turn the compressor On. If cylinder is not full and is connected properly, the compressor may have internal failure. Contact your home health care provider or Invacare.</li> </ol>

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	Problem	Solution
Troubleshooting	Compressor cycles on and Off or O <sub>2</sub> Below Normal (yellow) and filling (green) lights are alternating or O <sub>2</sub> below normal (yellow) light goes On and Off	<ol style="list-style-type: none"> <li>1. Check the concentrator liter flow setting is at 3 L/min or less. If necessary, adjust the liter flow setting (refer to the concentrator User manual). Wait at least 20 minutes for the GREEN light to appear. If it does not appear, proceed to step 2.</li> <li>2. The concentrator may need service, contact your home health care provider or Invacare.</li> </ol>
	O <sub>2</sub> below normal (YELLOW) light stays On	<ol style="list-style-type: none"> <li>1. Ensure the concentrator has warmed up for at least 20 minutes. If it has not been 20 minutes, turn the compressor Off until the concentrator warms up. If the YELLOW light still remains on proceed to step 2.</li> <li>2. Inspect the connection between the compressor and the concentrator for damage or pinching. <ul style="list-style-type: none"> <li>• If damaged, replace.</li> <li>• If pinched, straighten tubing. Turn the compressor Off for at least 10 seconds. Turn the compressor On. If the YELLOW light still remains on after 10 minutes, proceed to step 3.</li> </ul> </li> <li>3. <u>The concentrator may need service, contact your home health care</u></li> </ol>
Troubleshooting	Problem	Solution
	Fill times exceed maximum as recommended fill times OR GREEN filling light stays On.	<ol style="list-style-type: none"> <li>1. Ensure the cylinder regulator is set to Off.</li> <li>2. Check the recommended fill times shown in the individual cylinder's manual.</li> <li>3. Check that the cylinder is connected properly. Turn the compressor Off. Remove the cylinder and reinstall. Turn the compressor On.</li> <li>4. Check the compressor/concentrator line for proper connection and/or damage (i.e. - leaks or kinks).</li> <li>5. Check the concentrator liter flow setting is at three L/min or less. If necessary, adjust the liter flow setting (refer to the concentrator User manual). If the GREEN filling light does not go Off, the compressor and/or concentrator may need service. Contact your home health care provider or Invacare.</li> </ol>
	Excessive noise when compressor is On	<ol style="list-style-type: none"> <li>1. Call home health care provider or Invacare for service.</li> </ol>
	Hissing sound from Regulator when flow selector is Off	<ol style="list-style-type: none"> <li>1. Turn flow selector Off.</li> <li>2. If hissing sounds continue, call home health care provider or Invacare.</li> </ol>
Regulator is On but O <sub>2</sub> is not being delivered	<ol style="list-style-type: none"> <li>1. Refill cylinder</li> <li>2. Check that cannula is straight and not pinched. If damaged, replace.</li> <li>3. Call home health care provider or Invacare for service.</li> </ol>	

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Cylinder Run Time - E	Pediatric					
	E Cylinder Oxygen Supply Time Guide					
	Pressure Gauge Reading	Liter Flow per Minute				
		1/16	1/8	1/4	1/2	1
	Approximate Hours Remaining					
	2000 psi	160	80	40	20	10
	1500 psi	120	60	30	15	7.5
	1000 psi	80	40	20	10	5
	500 psi	40	20	10	5	2.5
	Total Liters in cylinder is 680 when full.					
All times are approximate Hours Remaining times						
Cylinder Run Time - D	Pediatric					
	D Cylinder Oxygen Supply Time Guide					
	Pressure Gauge Reading	Liter Flow per Minute				
		1/16	1/8	1/4	1/2	1
	Approximate Hours Remaining					
	2000 psi	112	56	28	14	7
	1500 psi	84	42	21	10.5	5.25
	1000 psi	56	28	14	7	3.5
	500 psi	28	14	7	3.5	1.75
	Total Liters in cylinder is 425 when full.					
All times are approximate Hours Remaining times						
Cylinder Run Time - M9	M9 Oxygen Supply Time Guide					
	Pressure Gauge Reading	Liter Flow per Minute				
		1/16	1/8	1/4	1/2	1
	Approximate Hours Remaining					
	2000 psi	64	32	16	8	4
	1500 psi	48	24	12	6	3
	1000 psi	32	16	8	4	2
	500 psi	16	8	4	2	1
	Total Liters in cylinder is 255 when full.					
	All times are approximate Hours Remaining times					
Electricity Use - Concentrator vs Cylinder	<p>A (D) cylinder can be filled in 3.5 hours. Using .5L/min the cylinder would last 14 hours. This would save approximately 7 hours of run time. Concentrator + Homefill running for 3.5 hours to fill equals about 6 total hours compared to 14 hours of just the concentrator running.</p>					