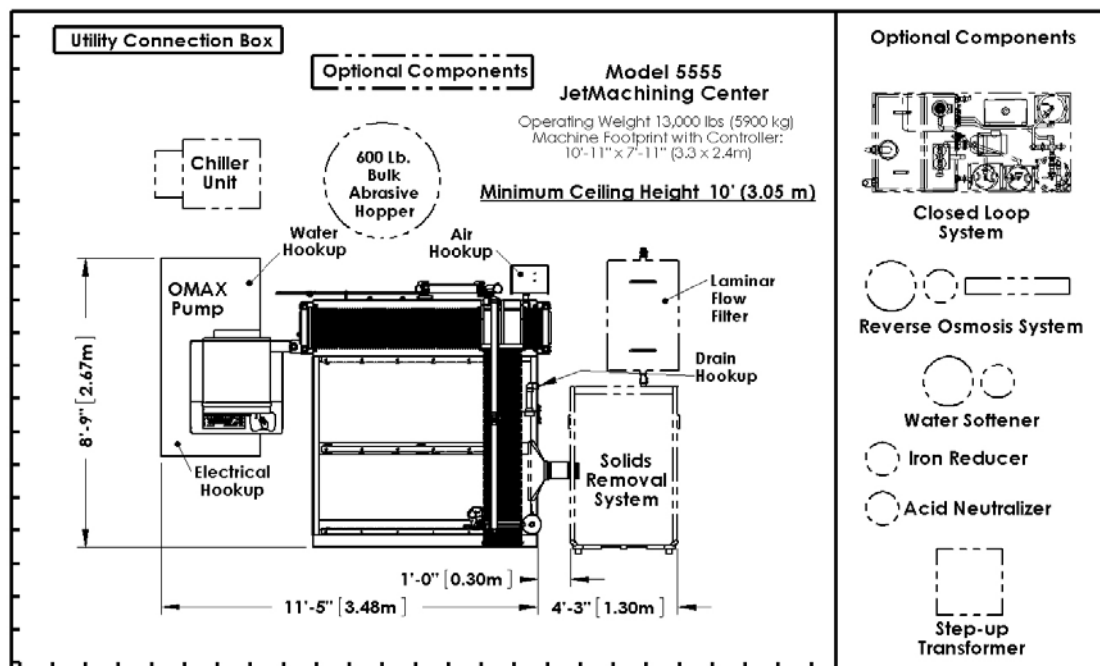


Model 5555 Utility Requirements

System Diagram

The OMAX JetMachining® Center floor plan and optional components are shown to scale as follows:



For personnel, maintenance and utility access, a pathway width of 3' (0.9 m) minimum is recommended around all sides of the machine system. Component position can be altered to suit facility constraints as required.

System Requirements

• Environment

50-90° F (10-32° C) ambient temperature with 95% or less humidity

Recommended slab requirement: 4 inch minimum slab thickness, 3000 PSI concrete with steel reinforcement.

For certain machine table models, the floor flatness underneath machine needs to be flat within 1 inch

• Air Supply

Pressure: 75-120 psi (517-827 kPa)

Flow: 16.0 cfm (27 Nm³/hr) Minimum

• Air Quality

Clean & Dry

• Water Supply

Temperature: Required: 45-70°F (7-21°C) Recommended: 45-60°F (7-16°C)

Pressure/Flow:

	Without Reverse Osmosis System	With Reverse Osmosis System
Pressure	20-50 psi (138-345 kPa)	50-90 psi (345-620 kPa)
Flow	3.2 gpm (12.1 l/m) Minimum	3.2 gpm (12.1 l/m) minimum

Model 5555 Utility Requirements

- Water Quality**

pH Level: 6.5-8.5

Impurity Content Limits:

Material	Limit	Material	Limit
Total Dissolved Solids	< 250 ppm	Manganese	< 0.05 ppm
Calcium	< 17 ppm	Chloride	< 100 ppm
Magnesium	< 6 ppm	Sulfate	< 200 ppm
Iron	< 0.3 ppm	Silica	< 10 ppm

The OMAX machine requires water filtered to a very high level and contains fine filters to do so. Additional water filtering may be required to prevent premature clogging of these filters if the incoming water is especially dirty.

- Drain Flow**

5 gpm (19 l/m) minimum

- Facility Lifting Capacity** – See OMAX JetMachining Center Shipping Weights Document, 400639.

- Electrical Grounding**

The OMAX JetMachining Center is provided with a ground strap that must be attached to a recognized ground.

- System Electrical**

Three Phase Electrical Requirements

380V TO 480V Utility Voltage

30 HP Pump – No Chiller

- 60A, 3 Phase, Mains Disconnect, **OWNER SUPPLIED**
- 60A, 3 Phase, Pump Disconnect (**OPTIONAL**)

40 HP Pump

- 80A, 3 Phase, Mains Disconnect, **OWNER SUPPLIED**
- 80A, 3 Phase, Pump Disconnect (**OPTIONAL**)

50 HP Pump

- 100A, 3 Phase, Mains Disconnect, **OWNER SUPPLIED**
- 100A, 3 Phase, Pump Disconnect (**OPTIONAL**)

12000 BTU Chiller (OPTIONAL)

- 380V, 10A Mains Disconnect, **OWNER SUPPLIED**
- 460V, 6A Mains Disconnect, **OWNER SUPPLIED**

24000 BTU Chiller (OPTIONAL)

- 380V, 12A, 3 Phase, Mains Disconnect, **OWNER SUPPLIED**
- 460V, 10A, 3 Phase, Mains Disconnect, **OWNER SUPPLIED**

36000 BTU Chiller (OPTIONAL)

- 380V, 14A, 3 Phase, Mains Disconnect, **OWNER SUPPLIED**
- 460V, 12A, 3 Phase, Mains Disconnect, **OWNER SUPPLIED**

Closed Loop System (OPTIONAL)

- 380 VAC, 8A, 3 Phase, Disconnect, **OWNER SUPPLIED**
- 460 VAC, 5A, 3 Phase, Disconnect, **OWNER SUPPLIED**

230V Utility Voltage

30 HP Pump – No Chiller

- 125A, 3 Phase, 230V service as per local codes, **OWNER SUPPLIED**
- 75KVA Transformer, 240 Delta to 480 Delta, (**PURCHASED THRU OMAX**)
 - Note: Local electrician must connect transformer to service
- 125A, 3 Phase, Pump Disconnect, (**PURCHASED THRU OMAX**)

Model 5555 Utility Requirements

40 HP Pump

- 160A, 3 Phase, 230V service as per local codes, **OWNER SUPPLIED**
- 75KVA Transformer, 240 Delta to 480 Delta, (**PURCHASED THRU OMAX**),
 - *Note: Local electrician must connect transformer to service*
- 80A, 3 Phase, Pump Disconnect, (**PURCHASED THRU OMAX**)

50 HP Pump

- 185A, 3 Phase, 230V service as per local codes, **OWNER SUPPLIED**
- 75KVA Transformer, 240 Delta to 480 Delta, (**PURCHASED THRU OMAX**),
 - *Note: Local electrician must connect transformer to service*
- 100A, 3 Phase, Pump Disconnect, (**PURCHASED THRU OMAX**)

12000 BTU Chiller (OPTIONAL)

- 460V, 6A, 3 Phase, Disconnect, **OWNER SUPPLIED**

24000 BTU Chiller (OPTIONAL)

- 460V, 10A, 3 Phase, Disconnect, **OWNER SUPPLIED**

36000 BTU Chiller (OPTIONAL)

- 460V, 12A, 3 Phase, Disconnect, **OWNER SUPPLIED**

Closed Loop System (OPTIONAL)

- 460 VAC, 5A, 3 Phase, Disconnect, **OWNER SUPPLIED**

208V Utility Voltage

30 HP Pump – No Chiller

- 140A, 3 Phase, 208V service as per local codes, **OWNER SUPPLIED**
- 50KVA Transformer, 208 Wye to 480 Delta, (**PURCHASED THRU OMAX**)
 - *Note: Local electrician must connect transformer to service*
- 60A, 3 Phase, Pump Disconnect, (**PURCHASED THRU OMAX**)

40 HP Pump

- 175A, 3 Phase, 208V service as per local codes, **OWNER SUPPLIED**
- 75KVA Transformer, 208 Wye to 480 Delta, (**PURCHASED THRU OMAX**)
 - *Note: Local electrician must connect transformer to service*
- 80A, 3 Phase, Pump Disconnect, (**PURCHASED THRU OMAX**)

50 HP Pump

- 200A, 3 Phase, 208V service as per local codes, **OWNER SUPPLIED**
- 75KVA Transformer, 208 Wye to 480 Delta, (**PURCHASED THRU OMAX**)
 - *Note: Local electrician must connect transformer to service*
- 100A, 3 Phase, Pump Disconnect, (**PURCHASED THRU OMAX**)

12000 BTU Chiller (OPTIONAL)

- 460V, 6A, 3 Phase, Disconnect, **OWNER SUPPLIED**

24000 BTU Chiller (OPTIONAL)

- 460V, 10A, 3 Phase, Disconnect, **OWNER SUPPLIED**

36000 BTU Chiller (OPTIONAL)

- 460V, 12A, 3 Phase, Disconnect, **OWNER SUPPLIED**

Closed Loop System (OPTIONAL)

- 460 VAC, 5A, 3 Phase, Disconnect, **OWNER SUPPLIED**

Single Phase Electrical Requirements

Reverse Osmosis System (OPTIONAL)

- 230/115 VAC, 10/20A

Solids Removal System (OPTIONAL)

- 200-240 VAC, 10A. **Must have GFCI Protection, OMAX SUPPLIED**

Water Softener (OPTIONAL)

- 115 VAC, 10A

Laminar Filter (OPTIONAL)

- 230/115 VAC, 5/10A. **Must have GFCI Protection, OMAX SUPPLIED**

Model 5555 Utility Requirements



Pre-Installation Checklist – Factory Rep Will Contact You

Customer Name		
	Yes	No
1. Does the customer have the standard OMAX footprint of the machine that they purchased?	<input type="checkbox"/>	<input type="checkbox"/>
2. Does the customers planned layout match the standard OMAX footprint?	<input type="checkbox"/>	<input type="checkbox"/>
3. Has the customer ordered special lengths/assemblies of HP tube if there layout does not match the OMAX standard footprint?	<input type="checkbox"/>	<input type="checkbox"/>
4. Is the customer floor flatness where the machine is to be placed within 1" over the span of the catcher tank and in good condition?	<input type="checkbox"/>	<input type="checkbox"/>
5. Will the machine tank be placed over any expansion joints in the floor?	<input type="checkbox"/>	<input type="checkbox"/>
6. Is the customer ceiling height at least 10'?	<input type="checkbox"/>	<input type="checkbox"/>
7. Will there be at least 3' clearance between the rear of the OMAX tank and the back wall?	<input type="checkbox"/>	<input type="checkbox"/>
8. Is there a door large enough to move components through upon delivery? Minimum 90"	<input type="checkbox"/>	<input type="checkbox"/>
9. Does the customer have enough facility lifting capacity to unload the machine when it arrives or do they have a rigger hired?	<input type="checkbox"/>	<input type="checkbox"/>
10. Does the customer have provision to lift the machine approximately. 2" off the ground to facilitate putting the leveling epoxy under the machine during installation?	<input type="checkbox"/>	<input type="checkbox"/>
11. Does the customer have the correct power requirements for the machine and components that they have purchased?	<input type="checkbox"/>	<input type="checkbox"/>
12. Does the customer have the necessary utilities for hook-up?	<input type="checkbox"/>	<input type="checkbox"/>
13. Does the customer have a fused disconnect for the HP pump, chiller, closed loop filtration system?	<input type="checkbox"/>	<input type="checkbox"/>
14. Does the customer have an electrician to hard wire the HP pump, chiller, closed loop filtration system?	<input type="checkbox"/>	<input type="checkbox"/>
15. Is there a verifiable ground that the machine can be hooked to?	<input type="checkbox"/>	<input type="checkbox"/>
16. Is the machine going to be placed where the ambient temperature is 70 degrees F?	<input type="checkbox"/>	<input type="checkbox"/>
17. Does the customer have a water supply plumbed with a supply valve?	<input type="checkbox"/>	<input type="checkbox"/>
18. Does the water supply run through the facility in any fashion that could affect the temperature?	<input type="checkbox"/>	<input type="checkbox"/>
19. Does the customer have clean, dry air plumbed for the table?	<input type="checkbox"/>	<input type="checkbox"/>
20. Does the customer have a proper waste drain located near the tank?	<input type="checkbox"/>	<input type="checkbox"/>
21. Has the customer had their supply water tested?	<input type="checkbox"/>	<input type="checkbox"/>