

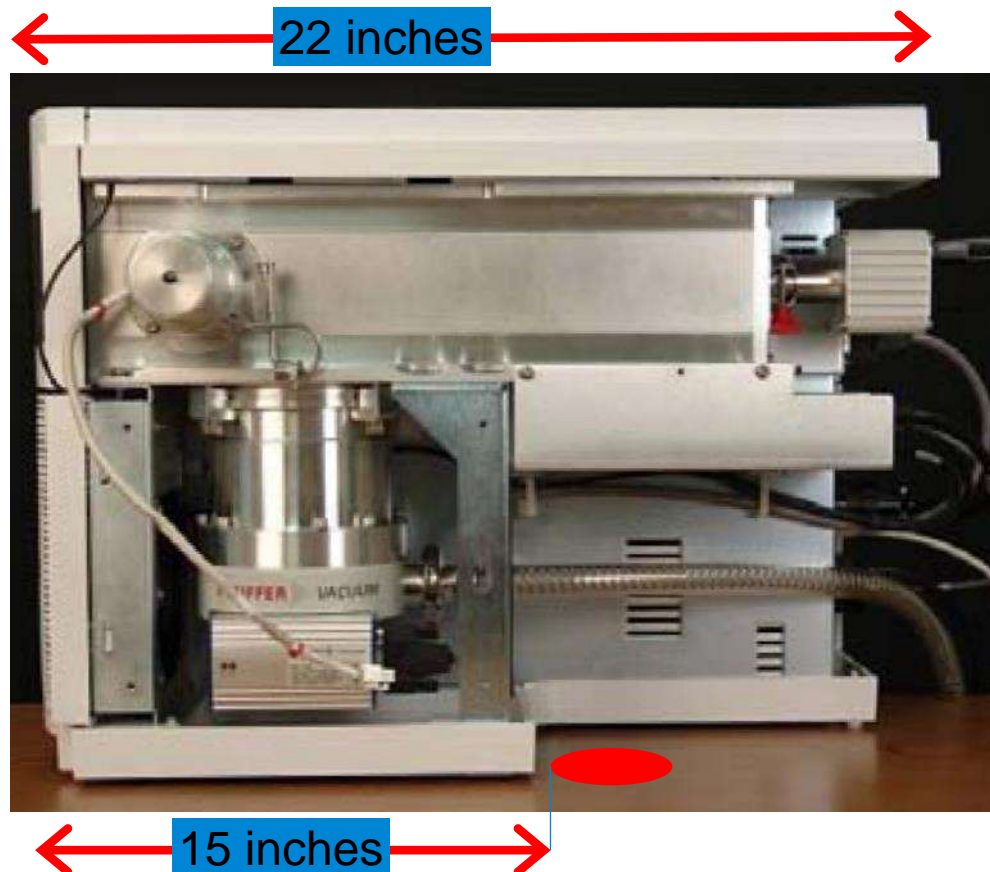
Putting the GCMS rough pump under the bench

SQ and TQ instruments

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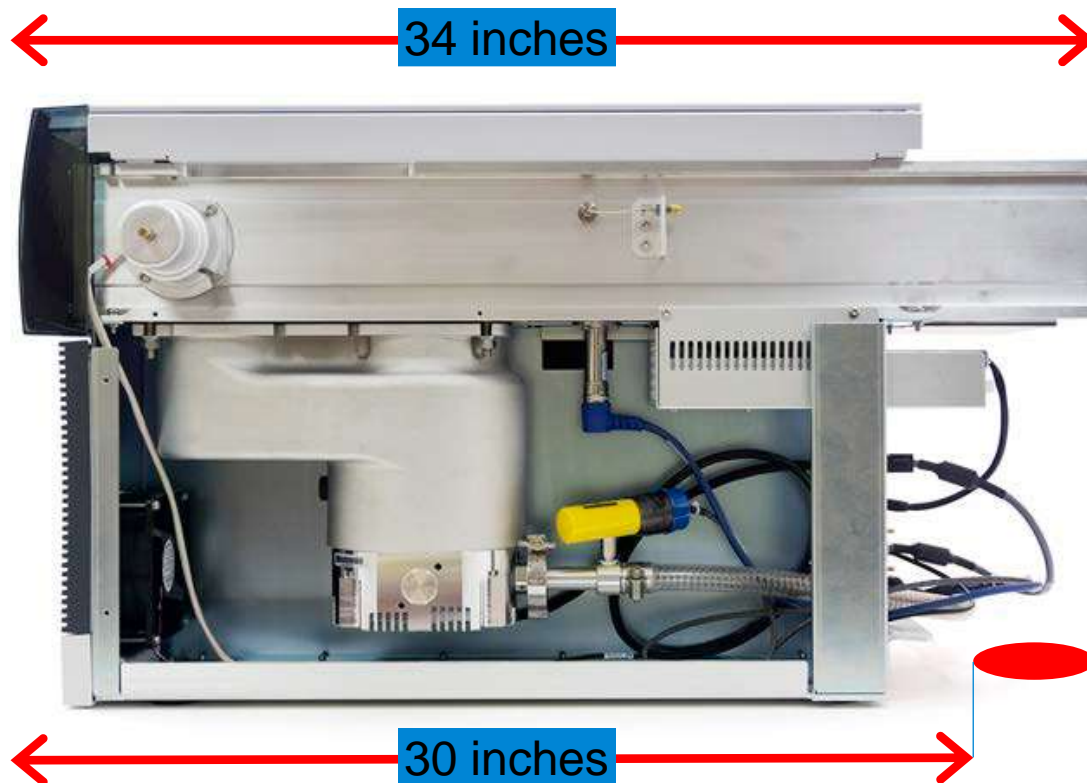
Putting the rough pump under the bench – SQ systems

The 5977x, 5975x, and 5973x rough pump hose is 160 cm / 63 inches. That distance is fixed and it cannot be longer. To mount the rough pump under the bench, drill a 2.5" diameter hole with the front edge no less than 15" from the front of the bench. The hole can be anywhere backwards to the wall to accommodate structure, plumbing or electrical.



Putting the rough pump under the bench – TQ systems

The 7000x and 7010x rough pump hose is 160 cm / 63 inches. That distance is fixed and it cannot be longer. To mount the rough pump under the bench, drill a 2.5" diameter hole with the front edge no less than 30" from the front of the bench. The hole can be anywhere backwards to the wall to accommodate structure, plumbing or electrical.



Rough pump exhaust:

Agilent recommends that the foreline pump exhaust of all GC/MS systems are vented outside of the laboratory environment.

- Exhaust vent system should not be part of an environmental control system that recirculates air inside of a building.
- Exhaust venting requirements need to comply with all local environmental and safety codes.
- If the exhaust is non-toxic/not flammable and will not be vented, then an oil mist filter should be used on the foreline pump exhaust. (For example: **do not use a mist filter on systems running Chemical Ionization**)
- An oil mist filter is included with systems shipped with oil pumps. It is a customer replaceable consumable. It is replaced during yearly PMs if covered under a hardware maintenance agreement.
- Agilent requires that no additional traps be added after the supplied mist filters.



Rough pump exhaust: 5977x, 5975x, 5973x

Agilent recommends that all GC/MS system foreline pump exhausts are vented outside of the laboratory environment.



G3170-80006 3/8" male BSP to barb fitting. Replaces oil mist filter on Pfeiffer Duo 2.5 and 3.0
Replaces silencer on IDP-3



IDP-3 Dry Scroll Rough Pump



Pfeiffer oil rough pump



MVP-070-3 Diaphragm Rough Pump

G3170-80029
Fitting and seal



Rough pump exhaust: 7000x/7010x

Agilent recommends that all GC/MS system foreline pump exhausts are vented outside of the laboratory environment.



Oil mist filter mounted on Edwards RV5 pump



This NW25 to 5/8" fitting is included with the RV5 pump to adapt either the rough pump exhaust directly, if running Chemical Ionization or corrosive samples that could damage the mist filter, or to vent the exhaust after the oil mist filter.



IDP-10 Dry Scroll Rough Pump

A vent line may be attached in place of the silencer.



An Exhaust silencer is attached to the NW16 fitting on an IDP-10 dry scroll rough pump. A vent line may be attached in place of the silencer.

Not included with IDP-10:
G1099-20531 KF16 Hose adapter
KC16AV KF16 O-Ring
0100-1397 NW10/16 Clamping Ring



Rough pump exhaust:

A 6 meter (20ft.) length of 3/8 inch i.d. PVC/vinyl tubing is available for venting the foreline pump exhaust. It should be cut to length for the location of the instrument and not exceed 20 feet. The foreline pump exhaust should not be shared with exhaust tubing from another instrument. Separate 3/8 inch hose barbs are required to connect the tubing to the exhaust vent.

- Agilent sells the tubing and clamps:
 - ✓ G3170-60100 20' of 3/8" i.d tygon tubing.
 - ✓ 1400-1234 hose clamp
- Make sure that there are:
 - ✓ No restrictions, no kinks, Very few sharp radius bends, and no low spots where oil could pool.

No additional traps should be added after the supplied mist filters.



Part numbers:

All:

33-9019	25' of 1/8" id x 1/4" od silicone tubing
G3170-60100	20' of 3/8" id x 15/32" od tygon tubing.
62-9030	50' of 1/2" id x 3/4" od clear pvc tubing
4005-0016	by the foot 1/2" id x 3/4" od clear pvc tubing
1400-1234	hose clamp

Single Quadrupole oil pump and IDP-3 dry scroll pump. Adapts exhaust to 3/8" tubing.
G3170-80006 3/8" male BSP to barb fitting

Single Quadrupole MVP-70-3 and MVP-070-3C diaphragm pump. Adapts exhaust to 3/8" tubing:
G3170-80029 Oil-Less Pump Exhaust Adapter and seal

Tandem Quadrupole oil pumps. Adapts exhaust to 1/2" tubing:
G1960-20003 NW25 to 5/8" hose adapter
0100-0549 NW 20/25 Clamping Ring
0905-1592 O-Ring, Size 2-320, Fluorocarbon

Tandem Quadrupole IDP-10 dry scroll pump. Adapts exhaust to 1/2" tubing:
G1099-20531 KF16 Hose adapter
KC16AV KF16 O-Ring
0100-1397 NW10/16 Clamping Ring

Rough pumps:

Do not install or use any rough pump in an environment exposed to atmospheric agents (rain, snow, ice), dust, aggressive gases, or in explosive environments or those with a high fire risk.

If placing the pump inside an enclosure, provide ample room to supply ambient air to the pump front and rear air intakes.

Operate the pump within the required ambient temperature constraints, otherwise damage to the pump or shortened operating life may result.

- Temperature +5C to +40C 41F to 104F
- Relative Humidity 0 to 95% (non-condensing)

Agilent CrossLab

From Insight to Outcome

