

Labotect

Labor-Technik-Göttingen

ACTIVE VIBRATION ISOLATION IVF WORKSTATION



Mobile cabinet optional

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Accurion's IVF Workstation has been specially designed for the use with in-vitro-fertilization so that biologists can ergonomically sit in front of their microscope.

The workstation consists of a lab table with integrated active vibration isolation system to actively compensate incoming vibrations. The incorporated i4 system is self explanatory with a control panel of only three buttons which allows the user to completely focus on the application. An active system enables you to work without disruptions and will increase your efficiency.

Due to the nonisolated surface space the user's arms can rest comfortably without impacting the procedure. In contrast to heavy granite tables its sleek design allows using your space to full capacity and also complements your existing furniture. In addition to that the active isolation system provides superior isolation performance and overcomes the disadvantages usually associated with passive systems.

Aside from functionality and stability, Accurion paid particular attention to medical standards, e.g. proper surface coating. A mobile cabinet would be available as optional accessory.

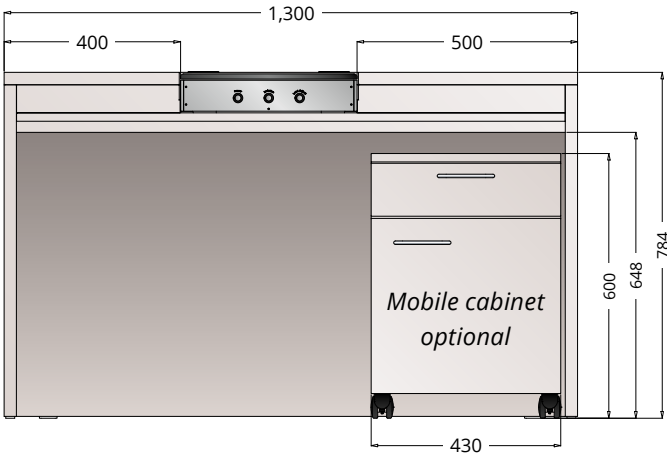


■ IVF Workstation with Nikon Eclipse Ts2R-FL
Mobile cabinet optional

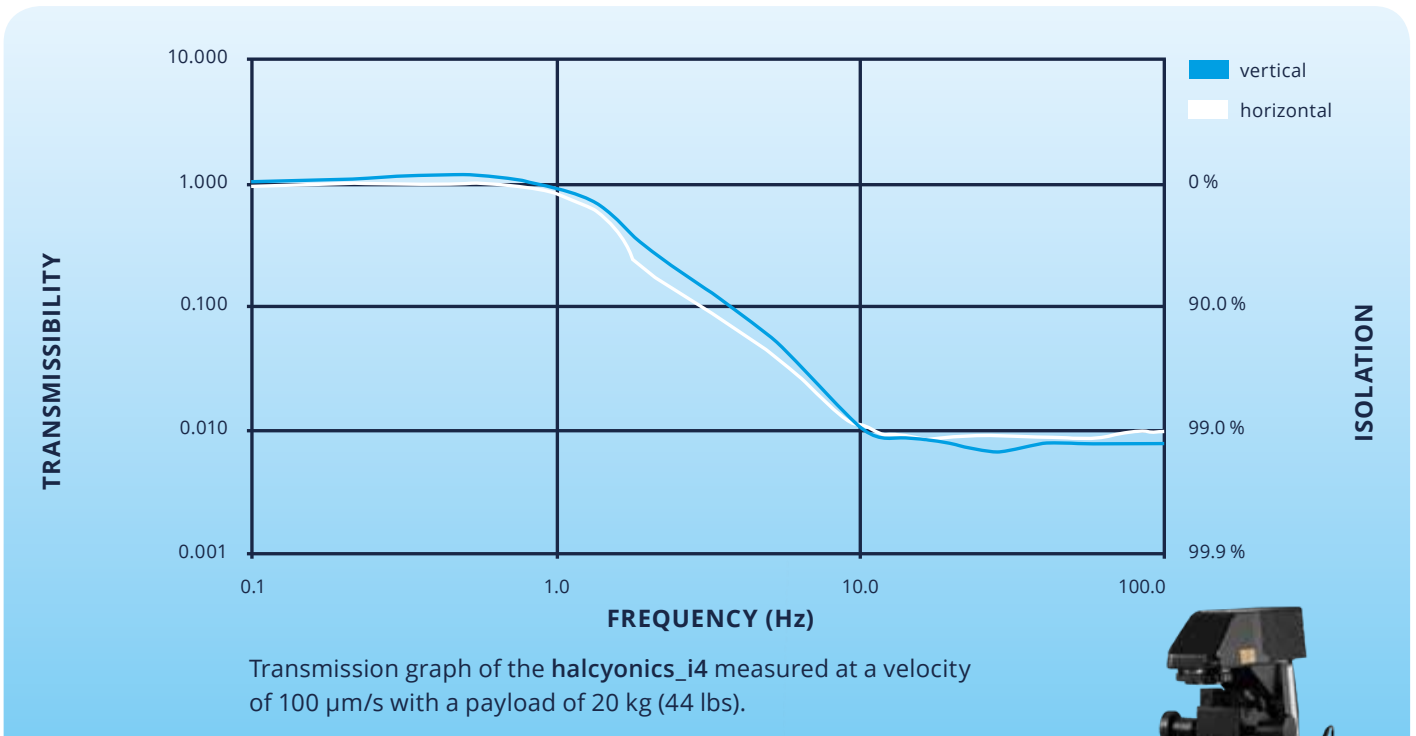
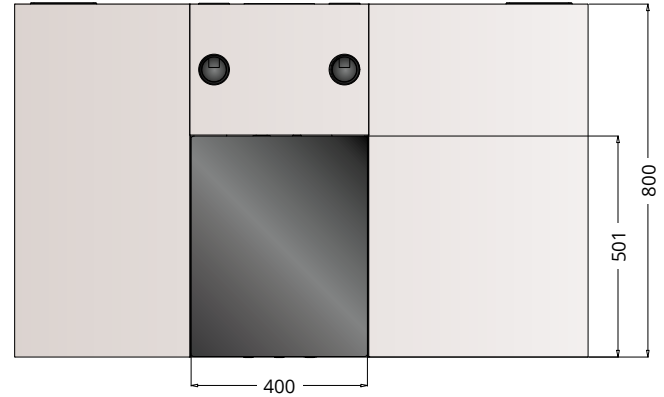
IVF WORKSTATION

Isolated surface i4 (W × D): 400 × 500 mm | 15.7" × 19.7"

Overall dimensions (W × D × H): 1300 × 800 × 784 mm | 51.2" × 31.5" × 30.9"



Top View



KEY FEATURES:

- Isolation in all six degrees of freedom.
- Automatic load adjustment and transportation lock.
- Vibration cancellation even in the low frequency range due to the lack of a natural low frequency resonance.
- AC power from an electrical outlet is sufficient; no compressed air supply is needed.
- Excellent position stability.
- Response time only 0.5 ms.

■ IVF Workstation with Nikon Eclipse T12



SPECIFICATIONS	IVF Workstation
Dimensions of isolated surface (L × W)	400 × 500 mm 15.7 × 19.7 inch
Load capacity on isolated surface	0 – 120 kg 0 – 265 lbs
Force directions	Active compensation in all six degrees of freedom.
Isolation performance	> 5 Hz = 25 dB (94.4 %) > 10 Hz = 40 dB (99 %)
Active bandwidth	0.6 – 200 Hz* (passive isolation beyond 200 Hz)
Response time	0.5 ms**
Max. correction forces	Vertical ± 8 N Horizontal ± 4 N
Table top material on isolated surface	Powder coated aluminum
Table top material non-isolated surface	Medium density fiberboard with outer melamin resin surface
Top plate surface flatness	± 0.10 mm over complete surface
Environmental and operational requirements	Electrical voltage: 100 – 240 V / 47 – 63 Hz Power consumption: Typically 40 – 45 W Operating temperature: 15 – 40 °C / 59 – 104 °F Relative humidity: 0 – 60 % Operating altitude: < 2,500 m / 8,100 ft
Electrical safety	CE certified according to directive 2014/35/EG
EMC	CE certified according to directive 2014/30/EG

*The low-pass characteristics of the spring-mass combination dominate the dynamic behavior of the isolation system above 200 Hz. The part of the active isolation decreases with increasing frequency.

**The response time determines when the system starts to actively isolate an incoming vibration after detection by the sensors.

Errors and omissions excepted.

Part numbers:

REF 16877 – IVF Workstation (without mobile cabinet)

REF 16880 – Active vibration isolation system (400 × 500 × 90 mm³)

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