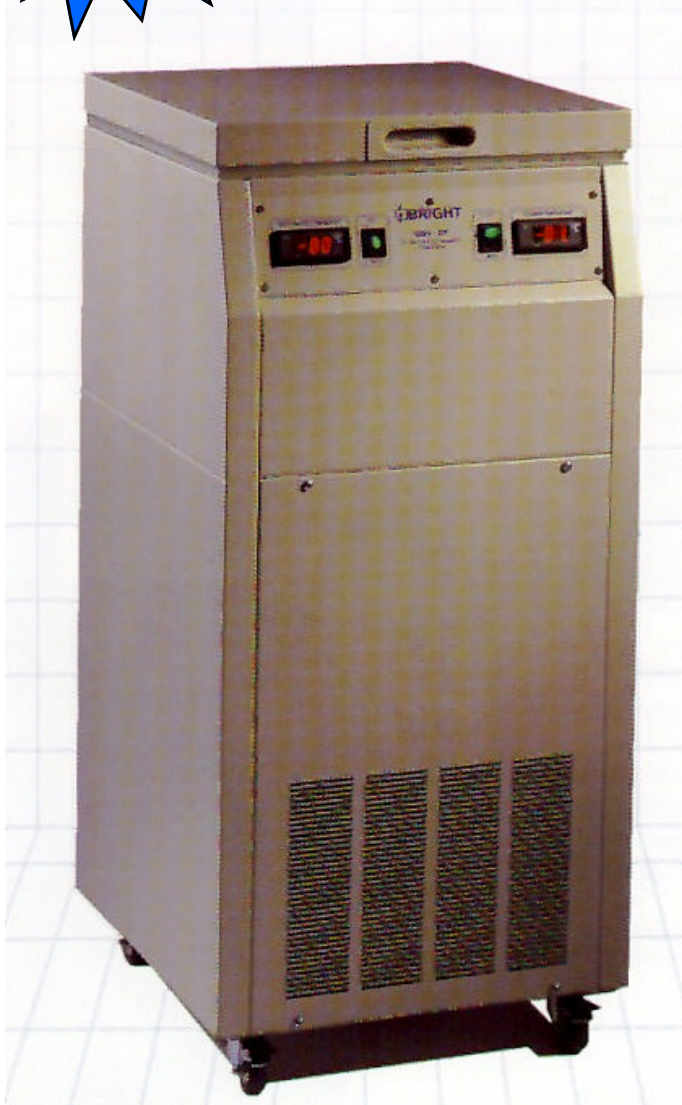


H/I CLINI-RF Ultra Low Rapid Freezer Unit

H/I proudly introduces the Hacker-Bright CLINI-RF

Now you can enjoy all the benefits of Hacker-Bright's legendary refrigeration incorporated in a state-of-the-art laboratory Freezer!

NEW!



The **CLINI-RF** is a new freezer designed to rapidly freeze specimens for sectioning or processing. The main benefits of the **CLINI-RF** are that it eliminates the need to use CO₂ and LN₂, thus also eliminating the need to purchase and store these potentially dangerous substances.

The instrument is a free standing unit providing a -80°C tank which can be used as a liquid bath for rapid freezing by direct immersion in isopentane or with a solid aluminum freezer block to freeze specimens directly onto cryostat object holders. The **CLINI-RF** also incorporates a -30°C freezer area for short term storage of frozen specimens.

The **CLINI-RF** can be run on “standby” with both freezer and rapid freezer tanks maintained at -30°C and then switched to “rapid freeze” when required. It will pull down to -75°C in 40 minutes, ready to use.

The refrigeration is a cascade system incorporating high back pressure, high starting torque, hermetically sealed compressors. The rapid freezer circuit uses R23 refrigerant with the primary compressor using R404a refrigerant. Both refrigerants and insulation are ozone friendly and CFC free. The combined ability of the system provides over 300 Watts of cooling with the freezer at -30°C and the rapid freezer at -75°C.

Specification - CLINI-RF - Ultra Low Rapid Freezer Unit

Compressor Type:	1 x 15cc displ. (Primary)	1 x 12cc displ. (Secondary)
Refrigerant:	Primary (R404a)	Secondary (R23)
Cooling Power:	300 Watts @ -30EC and -70EC rapid freezer	
Lowest Set Temperature:	-82EC rapid freezer. -30EC (preset) freezer	
Freezer to -30EC:	70 minutes	
Rapid Freezer to -75EC: (Freezer at -30EC)	(methylated spirits) 40 minutes	
Solid Block Freezer to -75EC: (Freezer at -30EC)	33 minutes*	
Cabinet Dimensions:	H 40" X W 18" X D 20"	1000 X 450 X 500mm
Freezer Dimensions:	diameter: 11" (275mm)	depth: 5.35" (136mm)
Rapid Freezer Dimensions:	diameter 3.75" X depth 3.75" (dia 95 X depth 95mm)	

* Note: Where a fast cooling rate and a solid freezer block are required, a non-removable freezer block can be specified. See price list for ordering information.

Clini-RF Ultra Low Rapid Freezer Unit, Complete With:

CAT. NO.

- Rapid freezer tank to -80EC
- -30EC freezer area for short term storage of specimens
- Removable block & object holder adapter
- 4 oz. Cryo-M-Bed
- Cooling block removal tool
- Allen Key, spare set of fuses
- Operators manual

For 110/115 VAC, 50/60 Hz **18 00 01**

For 220/240 VAC, 50/60 Hz **18 00 02**

Clini-RF Optional Rapid Freeze Timer

- 7 Day Programmable Timing Unit **18 00 05**

Clini-RF Optional Variable Temperature

- Variable Temperature Controller for Temperatures above -80EC **18 00 07**

Please request our 2004 Catalogue for a complete listing of Hacker products!

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