



Refroidisseur circulaire F-100

Le refroidissement facile

Refroidisseur économique, écologique et compact pour de petits instruments de distillation.

Économique

Conception économique répondant à vos besoins essentiels



Écologique

Energie sauvegardée, consommation d'eau éliminée et émissions de chaleur réduites



Fiable et facile

Fonctionnement durable et fiable en interaction avec vos autres instruments d'évaporation

F-100: Aperçu des avantages les plus importants



Économique

- Refroidissement efficace pour budget limité
- Faible encombrement sauvegardant un espace précieux dans le laboratoire
- Economies grâce à l'absence de consommation d'eau



Écologique

- Meilleures performances de refroidissement grâce à une température fixe de 10 °C
- Fonctionnement durable grâce à l'absence de consommation d'eau
- Energie sauvegardée réduisant les émissions de solvants et de chaleur à un minimum
- Mode autonome automatique éliminant les temps de refroidissement inutiles



Fiable et facile

- Optimal pour des applications de refroidissement basiques
- Facilité d'utilisation grâce à la température de refroidissement fixe
- Grande longévité grâce à sa construction robuste et stable et son boîtier en acier inoxydable

Complétez votre gamme de produits



Rotavapor®
R-100
Évaporation
économique



Rotavapor®
R-300
Évaporateur rotatif
confortable et efficace



Multivapor™
P-6 / P-12
Évaporation efficace
pour plusieurs
échantillons



Syncore®
Analyst
Optimisez l'efficacité du
traitement simultané de
plusieurs échantillons

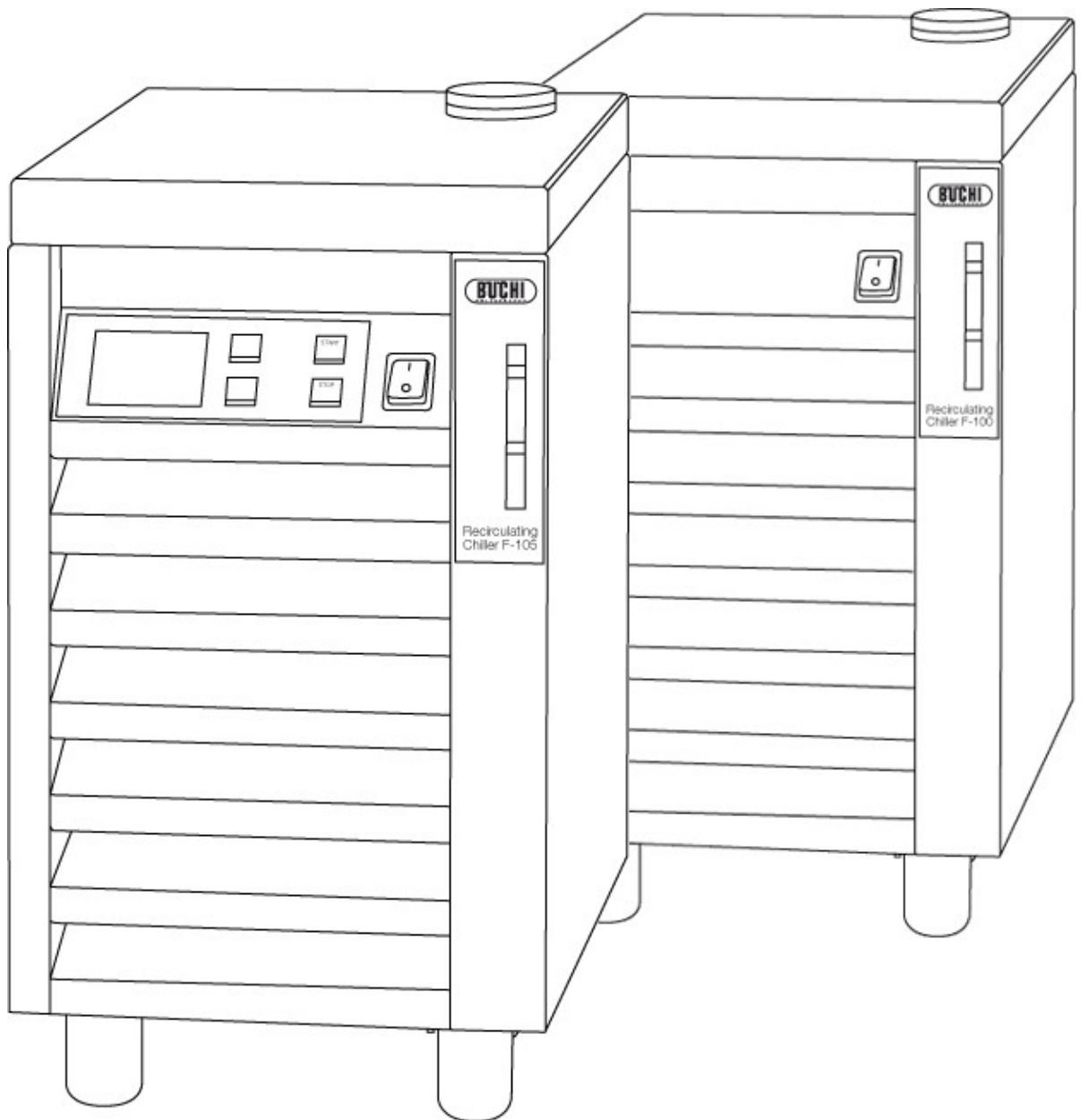




Recirculating Chiller F-100 / F-105

Technical data sheet

The F-100 and F-105 are environmentally friendly and compact recirculation chillers designed for one laboratory evaporator. The cooling temperature of the F-100 is fixed at 10 °C whereas the F-105 features an adjustable temperature with a higher cooling capacity. In addition, the F-105 offers ON/OFF regulation when used in conjunction with the Interface I-100.



Overview

The Recirculating Chiller F-100 and F-105 differ in their cooling capacity, temperature range and capability to communicate with the Interface I-100:

| | F-100 | F-105 |
|------------------------------|-------------|------------------|
| Cooling capacity at 15 °C | --- | 530 W |
| Cooling capacity at 10 °C | 300 W | 390 W |
| Cooling capacity at 0 °C | --- | 120 W |
| Set temperature | 10 °C (fix) | -10 °C to +25 °C |
| ON/OFF regulation with I-100 | no | yes |

* Measured at 20 °C ambient temperature. Typically required cooling capacity for a rotary evaporator is 400 W.

Scope of delivery

All configurations are supplied ready to use.

Components

| Components | F-100 / F-105 |
|---------------------------|---------------|
| Hose clamp | 4 |
| Power cord | 1 |
| Instruction manual on CD | 1 |
| Hose barbs, GL-14; Ø 8 mm | 2 |

Order Code

Choose the configuration according to your needs:

1 1 0 5 6 4 6 0

Recirculating Chiller F-100: 230 V
with fixed cooling temperature of 10 °C

1 1 0 5 6 4 6 3

Recirculating Chiller F-105: 115 V
with controllable cooling temperature
-10 °C to +25 °C

1 1 0 5 6 4 6 2

Recirculating Chiller F-105: 230 V
with controllable cooling temperature
-10 °C to +25 °C

Technical data

Recirculating Chiller

| | F-100 | F-105 |
|---------------------------------|---------------------|-------------------------------------|
| Dimensions (W x D x H) | 280 x 420 x 500 mm | 280 x 420 x 500mm |
| Weight | 28 kg | 30 kg |
| Cooling capacity at 15 °C* | - | 530 W |
| Cooling capacity at 10 °C* | 300 W | 390 W |
| Cooling capacity at 0 °C* | - | 120 W |
| Cooling capacity at -10 °C* | - | 10 W |
| Set temperature range | fix at 10 °C | -10 °C to +25 °C |
| Power consumption (max.) | 850 W | 850 W |
| Heating emission | 700 W | 700 W |
| Supply voltage | 230 VAC ± 10 % - | 230 VAC ± 10 % or 115 VAC ± 10 % |
| Frequency | 50/60 Hz | 50/60 Hz |
| Temperature display | no display | digital, resolution 0.1 °C |
| Ambient temperature | 5 – 35 °C | 5 – 35 °C |
| Refrigerant | R 134a (280 g) | R 134a (280 g) |
| Temperature regulation accuracy | ± 2 °C | ± 1 °C |
| Tank volume | 3 L | 3 L |
| Tubing connection | 8 mm (GL14) | 8 mm (GL14) |
| Pump pressure (max.) | 0.6 bar | 0.6 bar |
| Flow rate | 2.5 L/min | 2.5 L/min |
| Compatibility with interface | - | I-100, V-850, V-855 |

* Measured at 20 °C ambient temperature. Typically required cooling capacity for a rotary evaporator is 400 W.

Accessories

| | Order no. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Insulation tubing. Synthetic rubber, Ø10/23 mm, black, per m For insulation of cooling media. Meant to be used with silicone tubing (004134). | 028696 |

Feature comparison

The Recirculating Chiller F-105 offers the following features:

| Feature | Description | With interface |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Temperature setting on chiller | Set the temperature in 0.1 °C increments using the navigation knob. Actual and set temperature is shown on the integrated display. | |
| ON/OFF regulation with interface | The Interface I-100 and Vacuum Controller V-850 / V-855 switch the recirculation chiller automatically ON when distillation starts, and OFF when the process is terminated. | • |