



Devis
DryGair déshumidification

Les Maraichers de Normandie

The advantage of a Royal Brinkman installation:

- » Reliable
- » Professional
- » Latest technologies

royalbrinkman.nl


royal brinkman
global specialist in horticulture



1. DryGair DG12 50Hz

Informations générales

Le DryGair DG12 peut fonctionner grâce à ses propres capteurs et régulateurs de température et d'humidité relative, ce qui lui permet de fonctionner de manière autonome. Le DryGair DG12 peut également être connecté à votre ordinateur horticole, qui contrôle l'unité depuis cet ordinateur de processus jusqu'à une humidité définie.

Résistance aux produits chimiques et au soufre.

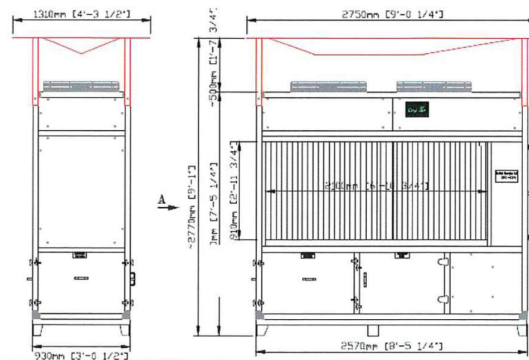
Le traitement de revêtement supplémentaire protège les plaques de radiateur, les composants internes en cuivre et les pièces soudées contre la corrosion et offre une résistance à divers agents et particules nocifs.

Détails techniques

Longueur	2,570 mm
Largeur	933 mm
Hauteur	2,270 mm
hauteur exacte réglable	(2,770 mm avec module de distribution d'air)
Poids	~920 kg
Plage de température optimale	10°C - 40°C
Condensation de l'eau	50 L/h @20°C 80% HR
Débit d'air	~23,000 m ³ /h
Puissance électrique	12 kW
Exigences en matière d'électricité	3 phases, 400V, 50 Hz
	I(Fonctionnement max.) = 44 Amp
Type de réfrigérant	R513A

Capacité de déshumidification réalisable dans la serre et dans chaque unité de déshumidification

Le déploiement de deux DryGair DG12 pour 10 000 m² permet d'obtenir une capacité de déshumidification de 100L/h à 20°C 80% RH, ce qui équivaut à 10L/h à 20°C 80% RH pour 1 000 m². Un seuil de performance minimum R, à 20 °C et 80 % d'humidité relative (HR), défini comme la capacité de déshumidification exprimée en litre/heure divisée par la puissance électrique absorbée en kW. R est supérieur ou égale à 2 L/kW. La réalisation avec le DryGair DG12 est de 50L à 20 °C et 80 % HR pour une puissance électrique de 12 kW, soit 4,166L/kW.



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General terms and conditions
All our offers, sales and deliveries are subject to our general terms and conditions, filed with the Chamber of Commerce on 23 May 2016 under number 40398573. Copies are available on request. Registered in Commercial Register no. 27217803 at the Hague.



4. Annexe / DryGair technical catalog



DryGair Energies Ltd. World Leading Dehumidification Made For Plants © 2022

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DRYGAIR FEATURES



Designed for Agriculture

All DryGair units are designed for optimal cultivation conditions.



Air Circulation

360° air dispersal for climate uniformity.



High Efficiency (Liter/kW)

DryGair's efficiency is measured in liters of water extracted per kW.



Climate Control Integration

Integrates with existing/additional climate control systems.



Simple Integration

Flexible placement options in the growing facility and easy plug and play installation.



Automation

Automated humidity control settings, reducing the work-hours required to optimize RH.



Flexibility

Split units offer dynamic and customizable positioning in the growing facility for further space optimization.



Temperature Control

The unit offers heating and/or cooling functions. All heating and cooling functions require an external source of hot or cold water.



Remote Control & Display

The unit comes with a remote control and external display for easy access and configuration.



Adjustable Hood

Adjust the height of the air distribution module and add or remove side panels to allow for center or corner positioning.



Compact

Small units, designed for maximum space efficiency in small growing facilities.



Designed for Indoor

Units designed for indoor use are engineered for optimal performance under common grow room conditions of 27°C and 60% relative humidity.



Easy to Clean – GMP Compliance

Units with removable drainage tray and easy access for cleaning, allow growers to fully comply with GMP requirements.

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DG-12 EU Standard 



 Water Extraction
50 L/H

 Air Circulation
~23,000 M³/H

 Patent
Protected

DryGair's flagship unit. Condenses up to 50 liters of water per hour, using less than 1 kWh per ~4 liters. It is the perfect balance of efficient, large-scale dehumidification with plug & play ease of use.

 Air Circulation

 Climate Control
Integration

 Simple Integration

 Automation

 Designed for Agriculture

 High Efficiency
(Liter/kWh)

TECHNICAL DETAILS

Depth	933 mm
Width	2,570 mm
Height <small>exact height can be adjusted</small>	2,270 mm (2,270 mm with air distribution module)
Weight	~920 kg
Optimal Temperature Range	10°C - 40°C
Water Condensation <small>@20°C, 80% RH</small>	50 L/h
Air Flow	~23,000 m ³ /h
Electricity Consumption	12 kW
Electricity Requirements	3 phase, 400V, 50 Hz I(Oper. max) = 44 Amp
Type of Refrigerant	R513A

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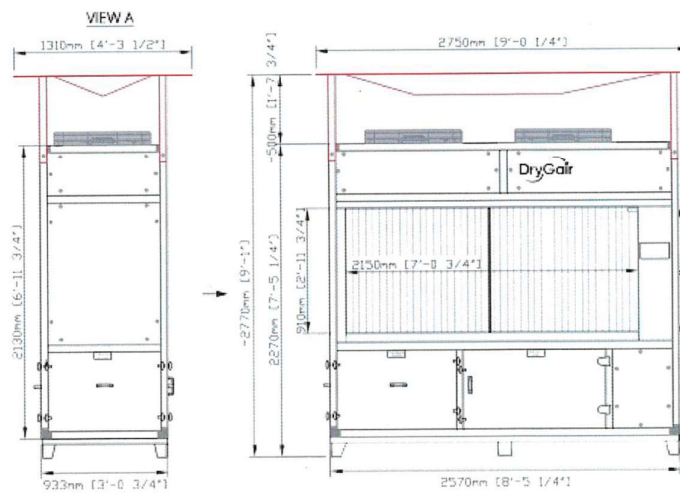
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DG-12 STANDARD UNITS Technical Sketches



AVAILABLE ADD-ONS

- | | | |
|---|---|---|
| <input checked="" type="checkbox"/> Heating & Cooling Kit | <input checked="" type="checkbox"/> Smart DG | <input checked="" type="checkbox"/> Air Filter |
| <input checked="" type="checkbox"/> Side Canopy | <input checked="" type="checkbox"/> Resistance to Chemicals and Sulphur | <input checked="" type="checkbox"/> Protective Wire Net |
| <input checked="" type="checkbox"/> Silencing Component | <input checked="" type="checkbox"/> Wheels / Castors | |
| <input checked="" type="checkbox"/> Status Light Signals | <input checked="" type="checkbox"/> Water Meter | |

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