

Variable Frequency Drives



Manufactured in the UK, the Waterco Variable Frequency Drive (VFD) range has been specifically designed to deliver exceptional performance, reliability, ease of use, whilst reducing electrical consumption.

The range has been designed with cost and practicality in mind, adding value to our customers.

VFD's are for 3 phase supply and 3 phase pump models. Single phase supply models are available please ask for details.

WATERCO VARIABLE FREQUENCY DRIVE

Part No.	Product Description	Price
WCVFD01	0.75kW (1 HP) Model	1,196.46 €

WCVFD01 - 0.75kW (1 HP) Model - Compatible with

Supastream 050 24030503EUM

Supastream 075 24030753EUM

Supatuf MK2 050 24105003EUM

Supatuf MK2 075 24107503EUM

Specifications For WCVFD01

Model	Supply Voltage	Input Phase	Supply Current Cont	Supply Fuse or MCB (TypeB)	Max Supply / Motor Cable	Max Motor Cable Length	Motor Output Rating	Output Voltage	Output Current	Height	Width	Depth	Weight
WCVFD01	380-480V	3	3.5A	6A	8mm ² (0.01 sq in)	100m (328ft)	0.75kW (1HP)	0 -Supply Voltage	2.2A	232mm 9.13"	232mm 9.13"	162mm 6.38"	2.3kg 5.07lbs

WATERCO VARIABLE FREQUENCY DRIVE

Part No.	Product Description	Price
WCVFD02	1.5kW (2 HP) Model	1,313.76 €

WCVFD02 - 1.5kW (2 HP) Model - Compatible with

Supastream 100 24031003E3EUM

Supastream 150 24031503E3EUM

Supatuf MK2 100 241100023E3EUM

Supatuf MK2 150 241150023E3EUM

Supatuf MK2 200 24120003E3EUM

Hydrostorm 100 2441003EUM

Hydrostorm 150 2441503EUM

Hydrostorm 200 2442003EUM

Hydrostorm Plus 150 24051503E3EUM

Hydrostorm Plus 200 24052003E3EUM

Specifications For WCVFD02

Model	Supply Voltage	Input Phase	Supply Current Cont	Supply Fuse or MCB (TypeB)	Max Supply / Motor Cable	Max Motor Cable Length	Motor Output Rating	Output Voltage	Output Current	Height	Width	Depth	Weight
WCVFD02	380-480V	3	5.6A	10A	8mm ² (0.01 sq in)	100m (328ft)	1.5kW (2 HP)	0 -Supply Voltage	4.1A	232mm 9.13"	232mm 9.13"	162mm 6.38"	2.3kg 5.07lbs

WATERCO VARIABLE FREQUENCY DRIVE

Part No.	Product Description	Price
WCVFD03	2.2kW (3 HP) Model	1,542.50 €

WCVFD03 - 2.2kW (3 HP) Model - Compatible with

Supatuf MK2 300 24130003E3EUM

Hydrostorm Plus 300 24053003E3EUM

Hydrostorm 300 2443003EUM

Specifications For WCVFD03

Model	Supply Voltage	Input Phase	Supply Current Cont	Supply Fuse or MCB (TypeB)	Max Supply / Motor Cable	Max Motor Cable Length	Motor Output Rating	Output Voltage	Output Current	Height	Width	Depth	Weight
WCVFD03	380-480V	3	7.5A	16A	8mm ² (0.01 sq in)	100m (328ft)	2.2kW (3HP)	0 -Supply Voltage	5.8A	258mm 10.12"	188mm 7.4"	186mm 7.32"	3.5kg 7.72lbs

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WATERCO VARIABLE FREQUENCY DRIVE

Part No.	Product Description	Price
WCVFD04	4kW (5 HP) Model	1,659.80 €

WCVFD04 - 4kW (5 HP) Model - Compatible with
 Hydrostorm Plus 400 24054003E3EUM
 Hydrostar 550 MKIII 240455033E3EUM
 Hydrostar 550 MKIV 2404550333EUM
 Hydrostar 400 MKIII 240440033E3EUM
 Hydrostar 400 MKIV 2404400333EUM

Specifications For WCVFD04

Model	Supply Voltage	Input Phase	Supply Current Cont	Supply Fuse or MCB (TypeB)	Max Supply / Motor Cable	Max Motor Cable Length	Motor Output Rating	Output Voltage	Output Current	Height	Width	Depth	Weight
WCVFD04	380-480V	3	11.5A	16A	8mm ² (0.01 sq in)	100m (328ft)	4kW (2 HP)	0 -Supply Voltage	9.5A	257mm 10.12"	188mm 7.4"	182mm 7.17"	3.5kg 7.72lbs

WATERCO VARIABLE FREQUENCY DRIVE

Part No.	Product Description	Price
WCVFD05	5.5kW (7.5 HP) Model	2,551.28 €

WCVFD05 - 5.5kW (7.5 HP) Model - Compatible with
 Hydrostar 700 MKIII 240470033E3EUM
 Hydrostar Plus 7.5kW 2461000EUM
 Hydrostar 700 MKIV 2404700333EUM

Specifications For WCVFD05

Model	Supply Voltage	Input Phase	Supply Current Cont	Supply Fuse or MCB (TypeB)	Max Supply / Motor Cable	Max Motor Cable Length	Motor Output Rating	Output Voltage	Output Current	Height	Width	Depth	Weight
WCVFD05	380-480V	3	17.2A	125A	8mm ² (0.01 sq in)	100m (328ft)	5.5kW (7.5HP)	0 -Supply Voltage	14A	310mm 12.2"	211mm 8.31"	235mm 9.25"	6.6kg 14.55lbs

WATERCO VARIABLE FREQUENCY DRIVE

Part No.	Product Description	Price
WCVFD06	7.5kW (10 HP) Model	2,879.72 €

WCVFD06 - 7.5kW (10 HP) Model - Compatible with Hydrostar Plus 7.5kW 2461000EUM

Specifications For WCVFD06

Model	Supply Voltage	Input Phase	Supply Current Cont	Supply Fuse or MCB (TypeB)	Max Supply / Motor Cable	Max Motor Cable Length	Motor Output Rating	Output Voltage	Output Current	Height	Width	Depth	Weight
WCVFD06	380-480V	3	21.2A	32A	8mm ² (0.01 sq in)	100m (328ft)	7.5kW (10 HP)	0 -Supply Voltage	18A	310mm 12.2"	211mm 8.31"	235mm 9.25"	6.6kg 14.55lbs

WATERCO VARIABLE FREQUENCY DRIVE

Part No.	Product Description	Price
WCVFD07	11kW (15 HP) Model	3,296.13 €

WCVFD07 - 11kW (15 HP) Model - Compatible with
 Hydrostar Plus 9.5kW 2461250EUM
 Hydrostar Plus 10kW 2461500EUM

Specifications For WCVFD07

Model	Supply Voltage	Input Phase	Supply Current Cont	Supply Fuse or MCB (TypeB)	Max Supply / Motor Cable	Max Motor Cable Length	Motor Output Rating	Output Voltage	Output Current	Height	Width	Depth	Weight
WCVFD07	380-480V	3	27.5A	40A	8mm ² (0.01 sq in)	100m (328ft)	11kW (15 HP)	0 -Supply Voltage	24A	310mm 12.2"	211mm 8.31"	235mm 9.25"	6.6kg 14.55lbs

How does a VFD work?

In simple terms Variable Frequency Drives work by reducing the speed the impeller spins. The pump affinity laws then explain how this benefits the pool owner / operator.

Affinity law 1

The flow rate is directly proportional to the change in the speed the impeller spins. For example: a 10% reduction in the speed of the impeller spinning, will result in a 10% reduction in flow.

Affinity Law 2

The pressure change is proportional to the change in the speed the impeller spins squared. For example: a 10% reduction in the speed of the impeller spinning will result in a 19% reduction in pressure.

Affinity Law 3

The power consumption change is proportional to the change in the speed the impeller spins cubed. For example: a 10% reduction in the speed of the impeller spinning will result in a 27% reduction in power consumption.