

HXHD-A8

Selection procedure for ·HXHD*· Hydrobox

Definitions of ·HXHD· Hydrobox parameters

Required Hydrobox capacity

·HC· [kW]

→ 14 Selection

Required capacity from outdoor unit for Hydrobox

·HCo· [kW]

→ 12 Result of calculation

Correction factor ·= f (LWT)·

·CF· [kW]

→ 0,9 Value from table (see below)

$HCo = HC * CF$

Cascade step power input

·P· [kW]

→ 1,8 Value from table (see below)

Outdoor unit power input (related to Hydrobox)

·Plo· [kW]

→ 4 Capacity table of ·VRV4· heat recovery ·16HP· with connection ratio = ·100·%, design ambient temperature = ·-7·°C; proportional to ·HCo· (·12.2/37.5*12.3·).

$Plo = f (HCo)$

Total Hydrobox power input

·Pl· [kW]

→ 5,8

$Pl = Plo + P$

Example

→ Outdoor unit: ·VRV4· heat recovery ·16HP· with connection ratio = ·100·%; design ambient temperature = ·-7·°C.

38 Outdoor unit capacity at design point [kW] → Find this value in the applicable capacity table of ·VRV4· heat recovery.

12 Outdoor unit power input at design point [kW] → Find this value in the applicable capacity table of ·VRV4· heat recovery.

HXHD125*:

EWT (°C)	30	40	45	55	65
LWT (°C)	35	45	55	65	75
P (kW) (*)	1,50	1,79	1,83	2,33	3,25
CF	0,89	0,87	0,87	0,83	0,77

(*) When the Hydrobox delivers ·14·kW

HXHD200*:

EWT (°C)	30	40	45	55	65
LWT (°C)	35	45	55	65	75
P (kW) (*)	1,86	2,17	2,47	3,56	4,81
CF	0,92	0,90	0,89	0,84	0,79

(*) When the Hydrobox delivers ·22.4·kW