

HTi⁷⁰

Dimplex[®]

High temperature heat pumps
with a wide capacity modulation



WIDE RANGE OF POWER:
6, 8, 11 & 14kW.

Available in single and three-phase

HIGH TEMPERATURE:
heating water up to **70°C**

WIDE CAPACITY MODULATION
from **15% to 100%**

HEATING CAPACITY increases as
the air temperature gradually lowers



**Easy monobloc heat pump
to be installed using a simple
hydraulic connection.**



HYDRAULIC PILOTS
for all types of installations:



DS 170D Pilot
**Domestic hot water
and heating**

Installation example:

In a recent 160 sqm house equipped
with radiators or underfloor heating,
HTi70 8 with DS 170D and DHW
included: full and stand-alone
solution.



**AIR
SOURCE**



HEATING



**DOMESTIC
WATER**

*only HTi⁷⁰ 6 & 8 concerned

(a) subject to compliance with the warranty conditions stipulated in our current Terms and Conditions.

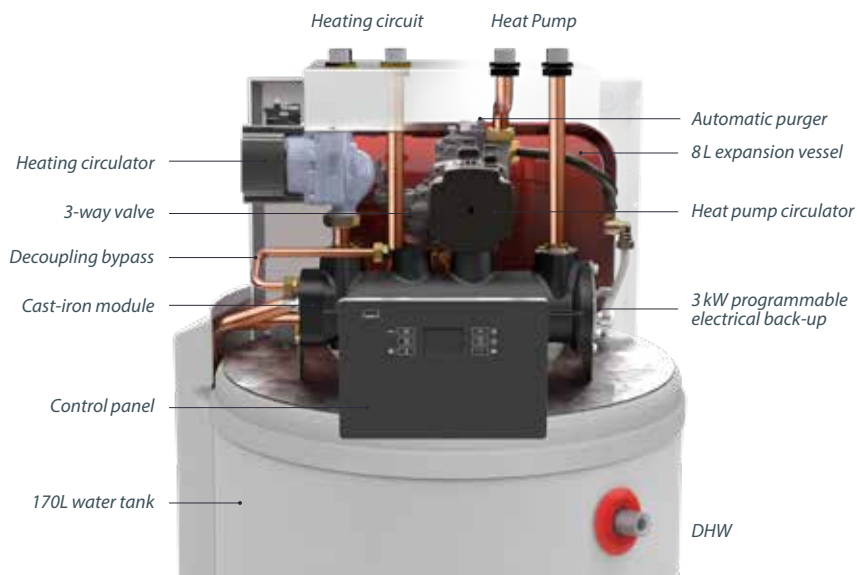
www.gdhv.com/ireland/

THE NEW RANGE OF HIGH TEMPERATURE

DS 170D Pilot

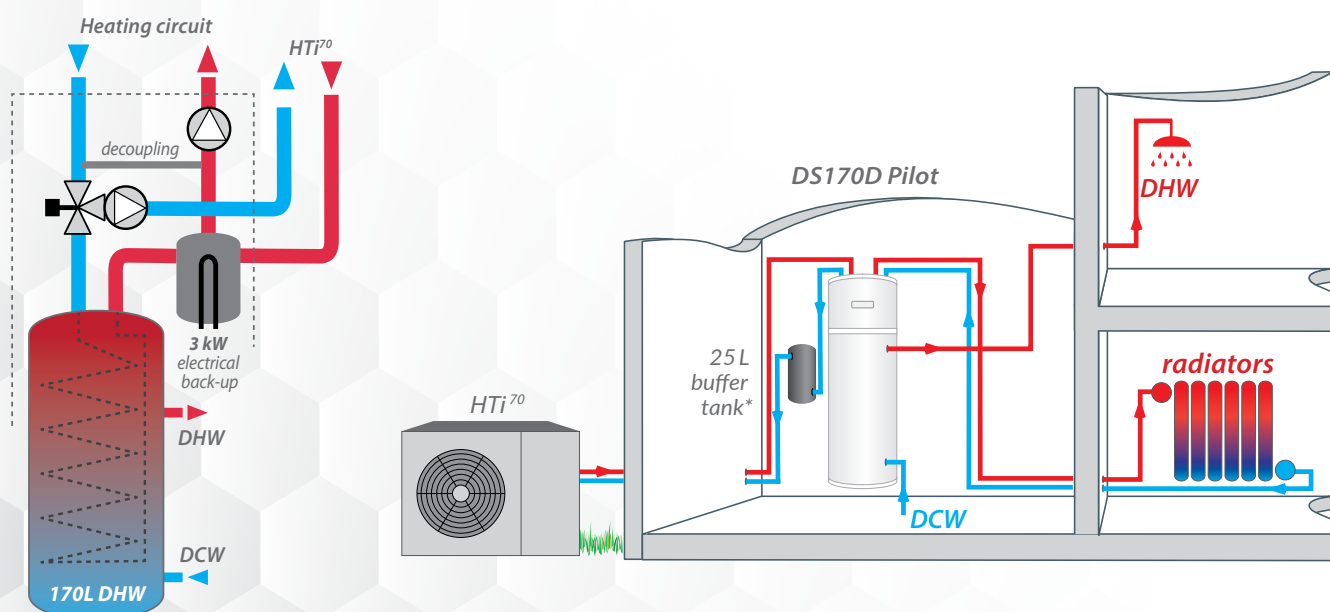


- Complete hydro-electronic pilot included in the DHW tank
- Equipped with an expansion vessel
- Cast-iron unit for programmable 3 kW electrical back-up
- A 170L DHW tank integrated
- Hydraulic decoupling of the circuits



AND ULTRA MODULATING HEAT PUMPS

DS170D pilot's operation



Schematic drawing: please refer to the installation manuals for the connection geometry
**Only for the HTi⁷⁰ 11 and 14.*


WHY OPT FOR HTI70 ?


The high temperature with a wide capacity modulation, and which does not lose its heating capacity in cold weather !



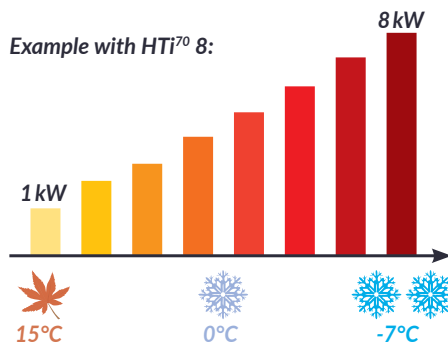
HOW DOES IT WORK?

CAPACITY ULTRA-MODULATION

 In mid-season, HTi⁷⁰ optimally adjusts both its capacity and temperature.

 In winter, HTi⁷⁰ delivers its full capacity at high temperatures to bring more comfort.

Example with HTi⁷⁰ 8:



- **FOR NEW BUILDINGS:**

Thanks to its ultra-modulation, HTi⁷⁰ can easily adapt to the low heating needs required in new buildings. Moreover, this heat pump is able to rise to high temperatures in order to supply the necessary DHW without any electrical back-up, even in cold weather.

- **Thanks to its ultra-modulation,** HTi⁷⁰ can adapt its capacity to the heating needs and set the accurate temperature of the radiators.

- **Guaranteed savings** thanks to an outstanding seasonal COP.

EASIEST INSTALLATION

- **Very easy to set-up:** no gas connection; just a hydraulic connection!
- **More savings on the electrical installation:** its low power consumption allows a simple power supply of 16A^(a).
- **Conservation of the existing heating circuit** (radiators or underfloor heating).
- **Designed to heat new or existing buildings.**
- **Easy condensation drainage** thanks to its connecting hole.
- **Optional adjustable foot set:** very useful to install the heat pump properly on uneven grounds. Also useful in snowy areas. *See picture below.*
- **Pre-assembled transport straps included.** *See picture below.*

^(a) 32A for HTi⁷⁰ 11 and 14

TECHNOLOGY:

- **Designed in the same vein as the HRC⁷⁰ Heat Pump:**

- 70°C high temperature,
- Same outdoor monobloc unit and same indoor hydraulic pilot,
- A long-lasting design,
- The use of the R290 without HFC for a greater respect of our planet.



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TECHNICAL SPECIFICATIONS

	HTi ⁷⁰ 6 single-phase	HTi ⁷⁰ 8 single-phase	HTi ⁷⁰ 8 three-phase	HTi ⁷⁰ 11 single-phase	HTi ⁷⁰ 11 three-phase	HTi ⁷⁰ 14 single-phase	HTi ⁷⁰ 14 three-phase
HTi ⁷⁰ + PRIMO Pilot	155001	155011	155051	155027	155067	155037	155077
HTi ⁷⁰ + PREMIUM+ Pilot	155006	155016	155056	155026	155066	155036	155076
HTi ⁷⁰ + DS 170D Pilot	155004	155014	155054	155024	155064	155034	155074

HEAT PUMP		HTi ⁷⁰ 6 single-phase	HTi ⁷⁰ 8 single-phase	HTi ⁷⁰ 8 three-phase	HTi ⁷⁰ 11 single-phase	HTi ⁷⁰ 11 three-phase	HTi ⁷⁰ 14 single-phase	HTi ⁷⁰ 14 three-phase
Energy class 35°C/55°C		A+++ / A++	A+++ / A+++	A+++ / A+++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Seasonal energy efficiency 35°C/55°C	η _s	187 % / 133 %	198 % / 154 %	198 % / 154 %	177 % / 126 %	177 % / 126 %	176 % / 125 %	176 % / 125 %
SCOP at 35°C/55°C	-	4,75 / 3,4	5,02 / 3,92	5,02 / 3,92	4,5 / 3,2	4,5 / 3,2	4,5 / 3,2	4,5 / 3,2
Maximum heating capacity at -7°C / 35°C	kW	6	8	8	11	11	14	14
Maximum heating capacity at -7°C / 65°C	kW	5,5	6,85	6,85	11	11	13	13
Nominal heating capacity at +7°C/+35°C (EN14511)	kW	4,17	6,06	6,06	9,14	9,14	11,21	11,21
COP at +7°C / +35°C nominal (EN14511)	-	5,05	5,35	5,35	5,02	5,02	4,89	4,89
Nominal sound pressure level (at 5m directivity 4)	dB(A)	38,1	41,6	41,6	42,3	42,3	in progress	in progress
Sound power level (ERP +7°C / 55°C)	dB(A)	55,8	57,6	57,6	50,4	50,4	in progress	in progress
Outdoor air temperature range	°C	-20 to +40	-20 to +40	-20 to +40	-20 to +40	-20 to +40	-20 to +40	-20 to +40
Power supply	V	230 single	230 single	400 three-phase	230 single	400 three-phase	230 single	400 three-phase
Protection circuit-breaker	A	16 single	16 single	10 three-phase	32 single	16 three-phase	32 single	16 three-phase
Maximum electric power	kVA	3,6	3,6	3,6	7	7	7	7
Power cable cross-section	mm ²	3G 2,5	3G 2,5	5G 2,5	3G 6	5G 2,5	3G 6	5G 2,5
Dimensions (HxLxP)	mm	820x1035x450	1075x1035x450	1075x1035x450	1028x1235x490	1028x1235x490	1028x1235x490	1028x1235x490
Weight when empty	kg	83	97	108	136	146	141	151
Nominal water flow	L/h	1000	1350	1350	1550	1550	2000	2000
Refrigerant fluid	kg	R290 / 0,42	R290 / 0,6	R290 / 0,6	R290 / 0,9	R290 / 0,9	R290 / 1,0	R290 / 1,0
Hydraulic connections	mm	26/34 male	26/34 male	26/34 male	26/34 male	26/34 male	26/34 male	26/34 male

PILOT		PRIMO	PREMIUM+	DS 170D
Minimum power cable width	mm ²	3x2,5 (single)	3x6 (single) 5x2,5 (three-phase)	3x2,5 (single)
Circuit breaker	A	16	32 (single) 16 (three-phase)	16
Power supply	V	230 (single)	230 (single) 400 (three-phase)	230 (single)
Multifunctional tank	L	18	38	25*
Dimensions of the pilot (HxLxP)	mm	837x400x340	845x590x420	1725x520x571
Weight of the pilot without water	kg	30	47	80
Hydraulic connections	mm	20/27 male	26/34 male	20/27 male
Boiler connection	-	no	compatible	no
Electrical back-up (as standard)	kW	0 to 3 kW	0 to 6 kW	0 to 3 kW
Decoupling of circuits		optional	yes	yes

*Only for the HTi⁷⁰ 11 and HTi⁷⁰ 14 heat pumps.



YOUR INSTALLER:

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SALES

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