

CERTIFICATION NF 414

HEAT PUMPS



Heat pumps

www.marque-nf.com

Price list 2018

In accordance with the NF 414
technical certification rules

(The indicated price lists are exclusive of any added tax and are to be increased by the rate of current VAT)

Version of 30/01/2018

Applicable fees – terms of payment

Note: By default, each holder of this program automatically participate in the European Heat Pump Program (Euro HP) for all products certified under this program and falling within the scope of the Euro-HP Certification Framework (Operational manual in force).

However, the Euro HP certification may be limited by the holder to specific ranges or models, using the corresponding declaration list; it may also refuse to participate in this program for all its products, by stipulating it by mail to Eurovent Certita Certification.

1. APPLICABLE FEES

1.1. FEES FOR OBTAINING CERTIFICATION (in € EXCL. TAXES)

Ref	SERVICES	RATE
412	ENTRANCE FEE	1 650
EXAMINATION OF THE APPLICATION FILE ⁽¹⁾		
415	- by range	1 485
	- by range, Brand name	1 155
812	Additional instruction time, whenever necessary, per hour	165
812	Preliminary study to application (option, 4h min, upon request)	660
INITIAL AUDIT ON PRODUCTION SITE		
311	<u>Package Area 1⁽²⁾</u> :	3 960
+ 331	(including the preparation, the audit conduction, the report, the follow-up of corrective action, the travel time and the on-site sampling, if applicable) (Variable travel expenses not included: see Terms and Conditions)	
311	<u>Package Area 2⁽²⁾</u> :	4 785
+ 332	(including the preparation, the audit conduction, the report, the follow-up of corrective action, the travel time and the on-site sampling, if applicable) (Variable travel expenses not included: see Terms and Conditions)	
311	<u>Package Area 3⁽²⁾</u> :	5 435
+ 333	(including the preparation, the audit conduction, the report, the follow-up of corrective action, the travel time and the on-site sampling, if applicable) (Variable travel expenses not included: see Terms and Conditions)	
314	Unexpected time, if applicable, per hour	165
231	SAMPLING ON THE MARKET OR ON STOCK (conducted outside audit)	NA

(1) Management fees are charged at the minimum rate. However, additional fees may be charged on the basis of EUROVENT CERTITA CERTIFICATION's hourly fee, in case of review or additional technical assistance necessary to process an application.

Hourly Fee = 165 € EXCL. TAXES

(2) Geographical areas are defined in attached Terms and Conditions

211	TESTING FEE FOR QUALIFICATION CAMPAIGN	See below (dedicated section tests)
371	ADDITIONAL CHECKING : Checking of corrective action plan following non-conformities found during tests.	NA

1.2. SURVEILLANCE OF CERTIFIED PRODUCT (in € EXCL. TAXES)

Ref	SERVICES	RATE
722	FIXED ANNUAL FEE	990
611	VARIABLE ANNUAL FEE	
613	+ Variable fee per range	495
614	+ Variable fee per site	3 300
417	EXAMINATION OF AN ADDITIONAL APPLICATION FILE ⁽¹⁾	1 485
417	EXAMINATION OF AN EXTENSION FILE ⁽¹⁾ - Discount in case of extension without additional controls	1 485 330
417	EXAMINATION OF A BRAND-NAME REQUEST FILE ⁽¹⁾	990
812	Preliminary study to application (option, 4h min, upon request)	660
	SURVEILLANCE or ADDITIONAL AUDIT ON PRODUCTION SITE	
312 + 331	<u>Package Area 1⁽²⁾</u> : (including the preparation, the audit conduction, the report, the follow-up of corrective action, the time of travel and the sampling, if applicable) (Variable travel expenses not included: see Terms and Conditions)	3 630
312 + 332	<u>Package Area 2⁽²⁾</u> : (including the preparation, the audit conduction, the report, the follow-up of corrective action, the time of travel and the sampling, if applicable) (Variable travel expenses not included: see Terms and Conditions)	4 545
312 + 333	<u>Package Area 2⁽²⁾</u> : (including the preparation, the audit conduction, the report, the follow-up of corrective action, the time of travel and the sampling, if applicable) (Variable travel expenses not included: see Terms and Conditions)	5 105
314	Unexpected time, if applicable, per hour	165
231	SAMPLING ON THE MARKET OR ON STOCK (conducted outside audit)	NA

(1) Management fees are charged at the minimum rate. However, additional fees may be charged on the basis of EUROVENT CERTITA CERTIFICATION's hourly rate, in case of review or additional technical assistance necessary to process an application.

Hourly Fee = 165 € EXCL. TAXES

(2) Geographical areas are defined in attached Terms and Conditions

211	TESTING FEE FOR SURVEILLANCE	See below (dedicated section tests)
371	ADDITIONAL CHECKING : Checking of corrective action plan following non-conformities found during tests.	NA

1.3 ANNUAL AUTHORISATION OF AN APPLICANT/HOLDER LABORATORY (in € EXCL VAT)

999	Autorisation instruction	825
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2. INVOICING TERMS AND CONDITIONS.

Invoicing conditions and terms are described in attached Terms and Conditions which overrules the chapter 4 of the Certification manual for NF programmes managed by EUROVENT CERTITA CERTIFICATION.

Terms and conditions of payment are mentioned on the invoices.

Invoices are only sent by e-mail. Paper copies are available upon request.

3. TESTS (in € EXCL VAT)

3.1 Tests part of the reference document

TYPE OF HEAT PUMP							
OUTDOOR AIR / WATER	Maximum capacity (example : 35 kW)	0-20	20-50	50-65	65-100		
<u>ELEC/X/OA/W</u>	Installation	1900	1940	1980	2070		
	Startup @ -15°C	1120	1150	1180	1230		
	<u>Heating mode</u>	1 point heating (Air T° ≥ 7°C)	1570	1610	1650	1730	
		1 point heating (Air T° < 7 °C)	2210	2260	2320	2430	
	Complementary cost if unit is:	Ducted	640	650	670	700	
		Split	640	650	670	700	
	<u>Cooling mode (unit already installed)</u>	1 point cooling	810	830	860	890	
	<u>Other thermal tests: (unit already installed)</u>	LRContmin	1570	1610	1650	1730	
		Psb (after thermal point)	320	330	330	350	
		Psb (thermal point included)	1890	1940	1980	2070	
		<u>Other EN14825 thermal tests: (unit already installed)</u>	Poff (after thermal point)	320	330	330	350
			Poff (thermal point included)	1890	1940	1980	2070
		Pto (after thermal point)	320	330	330	350	
		Pto (thermal point included)	1890	1940	1980	2070	
Pck (after thermal point)		320	330	330	350		
Pck (thermal point included)		2200	2260	2310	2420		
<u>Acoustic test in heating mode (unit already installed)</u>		1 point (Packaged and Not ducted)	2100	2150	2220	2320	
		Complementary cost if unit is: Ducted	940	960	990	1030	
		Complementary cost if unit is: Split	620	630	650	680	
OUTDOOR AIR / RECYCLED AIR	Maximum capacity (example : 35 kW)	0-12	12-20	20-50			
<u>ELEC/X/OA/RA</u>	Installation	2450	2530	2640			
	Startup @ -15°C	1170	1200	1260			
	<u>Heating mode</u>	1 point heating (Air T° ≥ 7°C)	1630	1680	1760		
		1 point heating (Air T° < 7 °C)	2040	2100	2200		
	Complementary cost if unit is:	Ducted	1360	1400	1460		
		Split	620	640	670		
	<u>Cooling mode (unit already installed)</u>	1 point cooling	810	840	880		
	<u>Other thermal tests: (unit already installed)</u>	LRContmin	1630	1680	1760		
		Psb (after thermal point)	190	200	210		
		Psb (thermal point included)	1820	1880	1960		
		<u>Other EN14825 thermal tests: (unit already installed)</u>	Poff (after thermal point)	190	200	210	
			Poff (thermal point included)	1820	1880	1960	
		Pto (after thermal point)	190	200	210		
		Pto (thermal point included)	1820	1880	1960		
Pck (after thermal point)		190	200	210			
Pck (thermal point included)		2010	2080	2170			
<u>Acoustic test in heating mode (unit already installed)</u>		1 point (Packaged and Not ducted)	3530	3650	3800		
		Complementary cost if unit is: Ducted	3530	3650	3800		
		Complementary cost if unit is: Split	690	720	750		

EXTRACTED AIR / FRESH AIR		Maximum capacity (example : 35 kW)		0-6	6-30	30-50	
ELEC/X/EA/FA	Installation			2680	2770	2900	
<u>Heating mode</u>	1 point heating (Air T° ≥ 7°C)			1630	1680	1760	
	1 point heating (Air T° < 7 °C)			2450	2530	2640	
	Complementary cost if unit is: Ducted			1280	1320	1380	
	Complementary cost if unit is: Split			640	670	690	
<u>Cooling mode (unit already installed)</u>	1 point cooling			810	840	880	
<u>Other thermal tests: (unit already installed)</u>	LRContmin			1630	1680	1760	
	Psb (after thermal point)			190	200	210	
	Psb (thermal point included)			1820	1880	1960	
<u>Acoustic test in heating mode (unit already installed)</u>	1 point (Packaged and Not ducted)			7030	7270	7590	
	Complementary cost if unit is: Ducted			1280	1320	1380	
	Complementary cost if unit is: Split			640	670	690	
GLYCOL / WATER and GLYCOL / GLYCOL		Maximum capacity (example : 35 kW)		0-17	17-30	30-50	50-100
ELEC/X/BR/W and ELEC/X/BR/BR	Installation			980	1010	1040	1080
<u>Fee for preparation of pipes (put Brine and remove Brine)</u>	1 per Range, whatever number of HP To test			1420	1450	1500	1560
<u>Heating mode</u>	1 point h			730	740	770	800
	Start up test for Solar collector HP			1420	1450	1500	1560
<u>Cooling mode (unit already installed)</u>	1 point cooling			730	740	770	800
<u>Other thermal tests (unit already installed)</u>	LRContmin			730	740	770	800
	Psb (after thermal point)			200	200	210	210
	Psb (thermal point included)			730	740	770	800
<u>Other EN14825 thermal tests: (unit already installed)</u>	Poff (after thermal point)			200	200	210	210
	Poff (thermal point included)			730	740	770	800
	Pto (after thermal point)			200	200	210	210
	Pto (thermal point included)			730	740	770	800
	Pck (after thermal point)			200	200	210	210
	Pck (thermal point included)			930	940	980	1010
<u>Acoustic test in heating mode (unit already installed)</u>	1 point			2720	2780	2880	3000
WATER / WATER		Maximum capacity (example : 35 kW)		0-17	17-33	33-50	50-100
ELEC/X/W/W	Installation			1410	1440	1490	1550
<u>Heating mode</u>	1 point h			720	730	760	790
<u>Cooling mode (unit already installed)</u>	1 point cooling			720	730	760	790
<u>Other thermal tests:</u>	LRContmin			720	730	760	790
	Psb (after thermal point)			190	190	200	200
	Psb (thermal point included)			900	910	950	980
<u>Other EN14825 thermal tests: (unit already installed)</u>	Poff (after thermal point)			190	190	200	200
	Poff (thermal point included)			900	910	950	980
	Pto (after thermal point)			190	190	200	200
	Pto (thermal point included)			900	910	950	980
	Pck (after thermal point)			740	740	780	780
	Pck (thermal point included)			1800	1820	1900	1960
<u>Acoustic test in heating mode (unit already installed)</u>	1 point			1810	1850	1910	1990
WATER / RECYCLED AIR		Maximum capacity (example : 35 kW)		0-12	12-50		
ELEC/X/W/RA	Installation			2570	2690		
<u>Heating mode</u>	1 point h			1510	1580		
<u>Cooling mode (unit already installed)</u>	1 point cooling			1510	1580		
<u>Other thermal tests: (unit already installed)</u>	LRContmin			1510	1580		
	Psb (after thermal point)			190	210		
	Psb (thermal point included)			1690	1790		
<u>Acoustic test in heating mode (unit already installed)</u>	1 point (Packaged and Not ducted)			2100	2200		
	Complementary cost if unit is: Ducted			1050	1100		
	Complementary cost if unit is: Split			530	550		
	Cost if unit is: Split+Ducted			4240	4500		
GLYCOL / RECYCLED AIR		Maximum capacity (example : 35 kW)		0-12	20-50		
ELEC/X/BR/RA	Installation			3550	3710		
<u>Heating mode</u>	1 point h			1510	1580		
<u>Cooling mode (unit already installed)</u>	1 point cooling			1510	1580		
<u>Other thermal tests: (unit already installed)</u>	LRContmin			1510	1580		
	Psb (after thermal point)			190	190		
	Psb (thermal point included)			1690	1770		
<u>Acoustic test in heating mode (unit already installed)</u>	1 point (Packaged and Not ducted)			3140	3280		
	Complementary cost if unit is: Ducted			1060	1110		
	Complementary cost if unit is: Split			540	560		

EXTRACTED AIR / WATER		Maximum capacity (example : 35 kW)	0-6	6-25	25-50	50-100
ELEC/X/EA/W	Installation		2590	2650	2740	2860
<u>Heating mode</u>	1 point		1630	1660	1730	1800
	Complementary cost if unit is: Ducted		640	660	680	710
	Complementary cost if unit is: Split		640	660	680	710
<u>Cooling mode (unit already installed)</u>	1 point cooling		810	830	860	890
<u>Other thermal tests: (unit already installed)</u>	LRContmin		1630	1660	1730	1800
	Psb (after thermal point)		330	340	350	360
	Psb (thermal point included)		1630	1660	1730	1800
<u>Acoustic test in heating mode (unit already installed)</u>	1 point (Packaged and Not ducted)		3040	3110	3210	3350
	Complementary cost if unit is: Ducted		940	960	990	1030
	Complementary cost if unit is: Split		620	630	650	680

GROUND / WATER		Maximum capacity (example : 35 kW)	0-12	12-35
ELEC/X/GR/W	Installation		1650	1850
<u>Heating mode</u>	1 point		980	1080
<u>Cooling mode (unit already installed)</u>	1 point cooling		550	610
<u>Other thermal tests: (unit already installed)</u>	LRContmin		980	1080
	Psb (after thermal point)		190	210
	Psb (thermal point included)		1170	1290
<u>Other EN14825 thermal tests: (unit already installed)</u>	Poff (after thermal point)		190	210
	Poff (thermal point included)		1170	1290
	Pto (after thermal point)		190	210
	Pto (thermal point included)		1170	1280
	Pck (after thermal point)		280	310
	Pck (thermal point included)		1260	1380
<u>Acoustic test in heating mode (unit already installed)</u>	1 point		3170	3270

GROUND / GROUND		Maximum capacity (example : 35 kW)	0-12	12-35	35-50	
ELEC/X/GR/GR	Installation		3290	3410	3490	
<u>Heating mode</u>	1 point		1450	1500	1540	
<u>Cooling mode (unit already installed)</u>	1 point cooling		1450	1500	1540	
<u>Other thermal tests: (unit already installed)</u>	LRContmin		1450	1500	1540	
	Psb (after thermal point)		290	300	310	
	Psb (thermal point included)		1740	1800	1850	
<u>Acoustic test in heating mode (unit already installed)</u>	1 point		3020	3120	3190	
WATER / GROUND		Maximum capacity (example : 35 kW)	0-12	12-35	35-50	
ELEC/X/W/GR	Installation		2200	2290	2340	
<u>Heating mode</u>	1 point		1170	1210	1240	
<u>Cooling mode (unit already installed)</u>	1 point cooling		1170	1210	1240	
<u>Other thermal tests: (unit already installed)</u>	LRContmin		1170	1210	1240	
	Psb (after thermal point)		240	250	250	
	Psb (thermal point included)		1400	1450	1480	
<u>Acoustic test in heating mode (unit already installed)</u>	1 point		3170	3270	3420	
OUTDOOR AIR / GROUND		Maximum capacity (example : 35 kW)	0-20	20-50	50-65	65-100
ELEC/X/OA/GR	Installation		3550	3630	3750	3910
<u>Heating mode</u>	Startup @ -15°C		1170	1190	1230	1280
	1 point h		1630	1660	1730	1800
<u>Cooling mode (unit already installed)</u>	1 point cooling		810	830	860	890
<u>Other thermal tests: (unit already installed)</u>	LRContmin		1630	1660	1730	1800
	Psb (after thermal point)		330	340	350	360
	Psb (thermal point included)		1630	1660	1730	1800
<u>Acoustic test in heating mode (unit already installed)</u>	1 point (Packaged and Not ducted)		3180	3250	3350	3500
	Complementary cost if unit is: Ducted		940	960	990	1030
	Complementary cost if unit is: Split		880	900	930	970

GAS - AIR / WATER		Maximum capacity (example : 35 kW)	0-30	30-60	60-100	
GAS/X/OA/W		Installation	3940	4080	4260	
<u>Heating mode</u>		1 point h	1630	1680	1760	
<u>Cooling mode (unit already installed)</u>		1 point cooling	810	840	880	
<u>Other thermal tests: (unit already installed)</u>		LRContmin	1630	1680	1760	
		Psb (after thermal point)	330	340	350	
		Psb (thermal point included)	1960	2020	2100	
<u>Other EN14825 thermal tests: (unit already installed)</u>		Poff (after thermal point)	330	340	350	
		Poff (thermal point included)	1960	2020	2100	
		Pto (after thermal point)	330	340	350	
		Pto (thermal point included)	1960	2020	2100	
		Pck (after thermal point)	330	340	350	
		Pck (thermal point included)	2290	2360	2450	
<u>Acoustic test in heating mode (unit already installed)</u>		1 point	2710	2800	2930	
GAS - AIR / AIR		Maximum capacity (example : 35 kW)	0-50	50-100		
GAS/X/OA/RA		Installation	4240	4430		
<u>Heating mode</u>		1 point h	1630	1710		
<u>Cooling mode (unit already installed)</u>		1 point cooling	810	850		
<u>Other thermal tests: (unit already installed)</u>		LRContmin	1630	1710		
		Psb (after thermal point)	330	340		
		Psb (thermal point included)	1960	2040		
<u>Other EN14825 thermal tests: (unit already installed)</u>		Poff (after thermal point)	330	340		
		Poff (thermal point included)	1960	2040		
		Pto (after thermal point)	330	340		
		Pto (thermal point included)	1960	2040		
		Pck (after thermal point)	330	340		
		Pck (thermal point included)	2290	2380		
<u>Acoustic test in heating mode (unit already installed)</u>		1 point	3550	3710		
SWIMMING POOL		Maximum capacity (example : 35 kW)	0-22	22-30	30-50	50-100
ELEC/PO/H/OA/W		Installation + 2 points + 2 EAF	8250	8430	8720	9090
<u>Seasonal application</u>		Installation + 2 points + 2 EAF	8250	8430	8720	9090
<u>Annual application</u>		Installation + 3 points + 2 EAF	9520	9750	10070	10500
<u>Acoustic test in heating mode (unit already installed)</u>		1 point (Packaged and Not ducted)	2100	2150	2220	2320
		Complementary cost if unit is: Ducted	940	960	990	1030
		Complementary cost if unit is: Split	620	630	650	680
DUAL MODE (HEATING AND DOMESTIC HOT WATER)		Maximum capacity (example : 35 kW)	0-20	20-50	50-65	65-100
.../D/...		EN 16147 DHW (just after regular heating tests)	7280	7450	7690	8030
		Installation + EN 16147 Domestic hot water	8250	8430	8720	9090

3.2 Additional test points

In order to take benefit of the installation of the machines, additional points can be ordered to the client manager in charge within EUROVENT CERTITA CERTIFICATION.

In particular, the following testing points have been identified as responding to some national market demands in Europe.

Other points could be tested, upon request to the client manager.

Electrical Heat Pump

1. Outdoor Air/water Heat Pumps:

➤ Option for 'Passivhaus' in Germany:

Test Condition: **The supply air temperature** must be at least **16,5°C**. This temperature must be achieved with an **external air temperature** of **-10°C**.

➤ Option for 'BAFA' in Germany:

Test Condition: **Outdoor air temperature** at **10°C** with **water temperature** at **35°C**

	kW	0-20	20-50	50-65	65-100
1 additional point	€	1570	1610	1650	1730

2. Outdoor Air / Recycled Air Heat Pumps:
Option for 'Passivhaus' in Germany:

Test Condition: **The supply air temperature** must be at least **16,5°C**. This temperature must be achieved with an **external air temperature** of **-10°C**.

	kW	0-12	12-20	20-50
1 additional point	€	1630	1680	1760

3. Outdoor air / Ground Heat Pumps
➤ Option for 'Passivhaus' in Germany:

Test Condition: **The supply air temperature** must be at least **16,5°C**. This temperature must be achieved with an **external air temperature** of **-10°C**.

	kW	0-20	20-50	50-65	65-100
1 additional point	€	1630	1660	1730	1800

4. Ground / Water Heat Pumps
➤ Option for 'BAFA' in Germany:

Test Condition: **Ground temperature** at **-1°C** with **water temperature** at **35°C**

	kW	0-12	12-35	35-50
1 additional point	€	980	1080	1130

➤ Option for 'Minergie' in Switzerland:

Test Condition: **Ground temperature** at **0°C** with **water temperature** at **35°C**

	kW	0-12	12-35	35-50
1 additional point	€	980	1080	1130

Others

Pricing depends of type of heat pump, technical features of the tested machine (ducted/split...), declared capacity. Please indicate in your request for each testing point as:

Test number:		Measurement 1	Measurement 2	Measurement 3
Test point	Performance (ex: Ph, Pe, COP, Lw...)			
	Upstream Temperature(s) [°C]			
	Downstream Temperature(s) [°C]			
Reference document (if any)				
Declared value (facultative; indicate corresponding unit under [])				
Or other testing feature, please specify (ex: setting of water flow rate, part load condition, auxiliary power, domestic hot water...)				
Any other specific information				