

CERTIFICATION NF 414

HEAT PUMPS



Heat pumps

www.marque-nf.com

Price list 2019

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 07/01/2019

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⁾	
	- Add a new range/new factory	1485
	- Add new products in an already certified range	0
417	EXAMINATION OF AN EXTENSION FILE ⁽¹⁾	
	- Add new conditions/applications in an already certified range	0
	- Modification of the performances (if the range was never tested during the follow up)	0
	- Administrative change	0
417	EXAMINATION OF A BRAND-NAME REQUEST FILE ⁽¹⁾	
	- Add a new range	990
	- Modification due to a change of OEM products	0
812	Preliminary study to application (option, 4h min, upon request)	660
	SURVEILLANCE or ADDITIONAL AUDIT ON PRODUCTION SITE	
312	<u>Package Area 1⁽²⁾ :</u>	
+	(including the preparation, the audit conduction, the report, the follow-up of	3 630
331	corrective action, the time of travel and the sampling, if applicable)	
	(Variable travel expenses not included: see Terms and Conditions)	
312	<u>Package Area 2⁽²⁾ :</u>	
+	(including the preparation, the audit conduction, the report, the follow-up of	4 545
332	corrective action, the time of travel and the sampling, if applicable)	
	(Variable travel expenses not included: see Terms and Conditions)	
312	<u>Package Area 2⁽²⁾ :</u>	
+	(including the preparation, the audit conduction, the report, the follow-up of	5 105
333	corrective action, the time of travel and the 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 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

OUTDOOR AIR / WATER	Maximum capacity (example : 35 kW)	0-20	20-50	50-65	65-100
ELEC/X/OA/W	Installation	1860	1900	1940	2030
	Startup @ -15°C	1070	1100	1130	1170
<u>Heating mode</u>	1 point heating (Air T° ≥ 7°C)	1130	1160	1190	1250
	1 point heating (Air T° < 7 °C)	1810	1850	1900	1990
	Complementary cost if unit is: Ducted	610	620	640	670
	Complementary cost if unit is: Split	610	620	640	670
	<u>Cooling mode (unit already installed)</u>	1 point cooling	1130	1160	1190
<u>Other thermal tests: (unit already installed)</u>	LRContmin	1130	1160	1190	1240
	Psb (after thermal point)	360	370	370	390
	Psb (thermal point included)	1490	1530	1560	1640
<u>Other EN14825 thermal tests: (unit already installed)</u>	Poff (after thermal point)	460	470	470	500
	Poff (thermal point included)	1590	1630	1660	1750

<u>Acoustic test in heating mode (unit already installed)</u>	Pto (after thermal point)	460	470	470	500
	Pto (thermal point included)	1590	1630	1660	1750
	Pck (after thermal point)	1790	1840	1840	1960
	Pck (thermal point included)	2930	3000	3030	3210
	1 point (Packaged and Not ducted)	1850	1890	1960	2040
	Complementary cost if unit is: Ducted	890	910	940	975
	Complementary cost if unit is: Split	590	600	620	650

OUTDOOR AIR / RECYCLED AIR	Maximum capacity (example : 35 kW)	0-12	12-20	20-50	
ELEC/X/OA/RA	Installation	2080	2150	2240	
	Startup @ -15°C	1000	1020	1070	
<u>Heating mode</u>	1 point heating (Air T° ≥ 7°C)	1390	1430	1500	
	1 point heating (Air T° < 7 °C)	1730	1785	1870	
	Complementary cost if unit is: Ducted	1160	1190	1240	
	Complementary cost if unit is: Split	530	540	570	
	<u>Cooling mode (unit already installed)</u>	1 point cooling	690	710	750
		LRContmin	1390	1430	1500
<u>Other thermal tests: (unit already installed)</u>	Psb (after thermal point)	160	170	180	
	Psb (thermal point included)	1550	1600	1680	
	<u>Other EN14825 thermal tests: (unit already installed)</u>	Poff (after thermal point)	160	170	180
		Poff (thermal point included)	1550	1600	1680
	Pto (after thermal point)	160	170	180	
	Pto (thermal point included)	1550	1600	1680	
	Pck (after thermal point)	160	170	180	
	Pck (thermal point included)	1710	1770	1850	
	<u>Acoustic test in heating mode (unit already installed)</u>	1 point (Packaged and Not ducted)	3000	3100	3230
		Complementary cost if unit is: Ducted	3000	3100	3230
Complementary cost if unit is: Split		590	610	640	

EXTRACTED AIR / FRESH AIR	Maximum capacity (example : 35 kW)	0-6	6-30	30-50
ELEC/X/EA/FA	Installation	2280	2360	2470
<u>Heating mode</u>	1 point heating (Air T° ≥ 7°C)	1390	1430	1500
	1 point heating (Air T° < 7 °C)	2090	2160	2250
	Complementary cost if unit is: Ducted	1090	1130	1180
	Complementary cost if unit is: Split	550	570	590
<u>Cooling mode (unit already installed)</u>	1 point cooling	690	720	750
<u>Other thermal tests: (unit already installed)</u>	LRContmin	1390	1430	1500
	Psb (after thermal point)	170	170	180
	Psb (thermal point included)	1560	1600	1680
<u>Acoustic test in heating mode (unit already installed)</u>	1 point (Packaged and Not ducted)	5980	6180	6460
	Complementary cost if unit is: Ducted	1090	1130	1180
	Complementary cost if unit is: Split	550	570	590

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	840	860	890	920
<u>Fee for preparation of pipes</u>	(put Brine and remove Brine)	1210	1240	1280	1330
<u>Heating mode</u>	1 point h	630	630	660	680
	Start up test for Solar collector HP	1210	1240	1280	1330
<u>Cooling mode (unit already installed)</u>	1 point cooling	630	630	660	680
<u>Other thermal tests (unit already installed)</u>	LRContmin	630	630	660	680
	Psb (after thermal point)	170	170	180	180
	Psb (thermal point included)	630	630	660	680
<u>Other EN14825 thermal tests: (unit already installed)</u>	Poff (after thermal point)	170	170	180	180
	Poff (thermal point included)	630	630	660	680
	Pto (after thermal point)	170	170	180	180
	Pto (thermal point included)	630	630	660	680
	Pck (after thermal point)	170	170	180	180
	Pck (thermal point included)	800	800	840	860

<u>Acoustic test in heating mode (unit already installed)</u>	1 point	2320	2370	2450	2550
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WATER / WATER	Maximum capacity (example : 35 kW)	0-17	17-33	33-50	50-100
ELEC/X/W/W	Installation	1200	1230	1270	1320
<u>Heating mode</u>	1 point h	620	630	650	680
<u>Cooling mode (unit already installed)</u>	1 point cooling	620	630	650	680
<u>Other thermal tests:</u>	LRContmin	620	630	650	680
	Psb (after thermal point)	170	170	170	170
	Psb (thermal point included)	790	800	820	850
<u>Other EN14825 thermal tests: (unit already installed)</u>	Poff (after thermal point)	170	170	170	170
	Poff (thermal point included)	790	800	820	850
	Pto (after thermal point)	170	170	170	170
	Pto (thermal point included)	790	800	820	850
	Pck (after thermal point)	630	630	670	670
	Pck (thermal point included)	1530	1550	1620	1670
<u>Acoustic test in heating mode (unit already installed)</u>	1 point	1540	1580	1630	1700

WATER / RECYCLED AIR	Maximum capacity (example : 35 kW)	0-12	12-50
ELEC/X/W/RA	Installation	2190	2290
<u>Heating mode</u>	1 point h	1290	1350
<u>Cooling mode (unit already installed)</u>	1 point cooling	1290	1350
<u>Other thermal tests: (unit already installed)</u>	LRContmin	1290	1350
	Psb (after thermal point)	170	180
	Psb (thermal point included)	1460	1530
<u>Acoustic test in heating mode (unit already installed)</u>	1 point (Packaged and Not ducted)	1790	1870
	Complementary cost if unit is: Ducted	900	940
	Complementary cost if unit is: Split	460	470

GLYCOL / RECYCLED AIR	Maximum capacity (example : 35 kW)	0-12	20-50
ELEC/X/BR/RA	Installation	3020	3160
<u>Heating mode</u>	1 point h	1290	1350
<u>Cooling mode (unit already installed)</u>	1 point cooling	1290	1350
<u>Other thermal tests: (unit already installed)</u>	LRContmin	1290	1350
	Psb (after thermal point)	170	170
	Psb (thermal point included)	1460	1520
<u>Acoustic test in heating mode (unit already installed)</u>	1 point (Packaged and Not ducted)	2670	2790
	Complementary cost if unit is: Ducted	910	950
	Complementary cost if unit is: Split	460	480

EXTRACTED AIR / WATER	Maximum capacity (example : 35 kW)	0-6	6-25	25-50	50-100
ELEC/X/EA/W	Installation	2210	2260	2330	2440
<u>Heating mode</u>	1 point	1390	1420	1480	1530
	Complementary cost if unit is: Ducted	550	570	580	610
	Complementary cost if unit is: Split	550	570	580	610
<u>Cooling mode (unit already installed)</u>	1 point cooling	690	710	740	760
<u>Other thermal tests: (unit already installed)</u>	LRContmin	1390	1420	1480	1530
	Psb (after thermal point)	290	290	300	310
	Psb (thermal point included)	1390	1420	1480	1530
<u>Acoustic test in heating mode (unit already installed)</u>	1 point (Packaged and Not ducted)	2590	2650	2730	2850
	Complementary cost if unit is: Ducted	800	820	850	880
	Complementary cost if unit is: Split	530	540	560	580

GROUND / WATER	Maximum capacity (example : 35 kW)	0-12	12-35	35-50
ELEC/X/GR/W	Installation	4430	4880	5110
<u>Heating mode</u>	1 point	840	920	970
<u>Cooling mode (unit already installed)</u>	1 point cooling	470	520	550
<u>Other thermal tests: (unit already installed)</u>	LRContmin	840	920	970
	Psb (after thermal point)	170	180	190
	Psb (thermal point included)	1010	1020	1030
<u>Other EN14825 thermal tests: (unit already installed)</u>	Poff (after thermal point)	170	180	190
	Poff (thermal point included)	1010	1020	1030
	Pto (after thermal point)	170	180	190
	Pto (thermal point included)	1010	1020	1030
	Pck (after thermal point)	240	270	290
	Pck (thermal point included)	1080	1180	1240
<u>Acoustic test in heating mode (unit already installed)</u>	1 point	2700	2780	2910

GROUND / GROUND	Maximum capacity (example : 35 kW)	0-12	12-35	35-50
ELEC/X/GR/GR	Installation	2800	2900	2970
<u>Heating mode</u>	1 point	1240	1280	1310
<u>Cooling mode (unit already installed)</u>	1 point cooling	1240	1280	1310
<u>Other thermal tests: (unit already installed)</u>	LRContmin	1240	1280	1310
	Psb (after thermal point)	250	260	270
	Psb (thermal point included)	1490	1540	1580
<u>Acoustic test in heating mode (unit already installed)</u>	1 point	2570	2660	2720

WATER / GROUND	Maximum capacity (example : 35 kW)	0-12	12-35	35-50
ELEC/X/W/GR	Installation	1870	1950	1990
<u>Heating mode</u>	1 point	1000	1030	1060
<u>Cooling mode (unit already installed)</u>	1 point cooling	1000	1030	1060
<u>Other thermal tests: (unit already installed)</u>	LRContmin	1000	1030	1060
	Psb (after thermal point)	210	220	220
	Psb (thermal point included)	1210	1250	1280

<u>Acoustic test in heating mode (unit already installed)</u>	1 point	2700	2780	2910
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OUTDOOR AIR /GROUND	Maximum capacity (example : 35 kW)	0-20	20-50	50-65	65-100
ELEC/X/OA/GR	Installation	3020	3090	3190	3330
	Heating mode				
	Startup @ -15°C	1000	1020	1050	1090
	1 point h	1390	1420	1480	1530
	Cooling mode (unit already installed)				
	1 point cooling	690	710	740	760
	Other thermal tests: (unit already installed)				
	LRContmin	1390	1420	1480	1530
	Psb (after thermal point)	290	290	300	310
	Psb (thermal point included)	1680	1710	1780	1840
	Acoustic test in heating mode (unit already installed)				
	1 point (Packaged and Not ducted)	2710	2770	2850	2980
	Complementary cost if unit is: Ducted	800	820	850	880
Complementary cost if unit is: Split	750	770	800	830	

GAS - AIR / WATER	Maximum capacity (example : 35 kW)	0-30	30-60	60-140
GAS/X/OA/W	Installation	3350	3470	3630
	Heating mode			
	1 point h	1390	1430	1500
	Cooling mode (unit already installed)			
	1 point cooling	690	720	750
	Other thermal tests: (unit already installed)			
	LRContmin	1390	1430	1500
	Psb (after thermal point)	290	290	300
	Psb (thermal point included)	1680	1720	1800
	Other EN14825 thermal tests: (unit already installed)			
	Poff (after thermal point)	290	290	300
	Poff (thermal point included)	1680	1720	1800
	Pto (after thermal point)	290	290	300
Pto (thermal point included)	1680	1720	1800	
Pck (after thermal point)	290	290	300	
Pck (thermal point included)	1950	2010	2090	
Acoustic test in heating mode (unit already installed)				
1 point	2310	2380	2500	

GAS - AIR / AIR	Maximum capacity (example : 35 kW)	0-50	50-100
GAS/X/OA/RA	Installation	3610	3770
<u>Heating mode</u>	1 point h	1390	1460
<u>Cooling mode (unit already installed)</u>	1 point cooling	690	730
<u>Other thermal tests: (unit already installed)</u>	LRContmin	1390	1460
	Psb (after thermal point)	290	290
	Psb (thermal point included)	1680	1750
<u>Other EN14825 thermal tests: (unit already installed)</u>	Poff (after thermal point)	290	290
	Poff (thermal point included)	1680	1750
	Pto (after thermal point)	290	290
	Pto (thermal point included)	1680	1750
	Pck (after thermal point)	290	290
	Pck (thermal point included)	1950	2030
<u>Acoustic test in heating mode (unit already installed)</u>	1 point	3020	3160

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	7020	7170	7420	7730
<u>Seasonal application</u>	Installation + 3 points + 2 EAF	8100	8290	8560	8930
<u>Annual application</u>	1 point (Packaged and Not ducted)	1790	1830	1890	1980
<u>Acoustic test in heating mode (unit already installed)</u>	Complementary cost if unit is: Ducted	800	820	850	880
	Complementary cost if unit is: Split	530	540	560	580

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)	6190	6340	6540	6830
	Installation + EN 16147 Domestic hot water	7020	7170	7420	7730

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				