

# Application for testing of domestic hot water heat pump

## 1 Interested party / applicant

**Company:** .....

**Address:** .....

**Zip, City:** .....

**Contact person:** .....

**Phone number:** .....

**Fax:** .....

**E-Mail:** .....

### 1.1 Name of the heat pump to be inspected

**Manufacturer:** .....

**Description of type:** .....

### 1.2 Application

This application shall be deemed to be an official firm order for the specified heat pump in accordance of the general terms and conditions of the Heat Pump Test Center WPZ.

**Ort /Datum:** .....

**Stempel / Unterschrift:** .....

You can send this application form as email to [mick.eschmann@ost.ch](mailto:mick.eschmann@ost.ch)

#### To be completed by WPZ:

**Eingang Datum:** ..... **Prüfnummer:** B - .....

**Eingang Datum:** ..... **Prüfnummer:** EnV - .....

## 2 Tests

- Test of domestic hot water heat pump for indoor air according to EN 16147**  
 (Measurement at A20)

**CHF 7'600.-**
- Test of domestic hot water heat pump with outside air according to EN 16147**  
 (Measurement at A7)

**CHF 8'700.-**
- Test of domestic hot water heat pump with brine as source according to EN 16147**  
 (Measurement at B0)

**CHF 8'700.-**
- Test of domestic hot water heat pump with water as source according to EN 16147**  
 (Measurement at W10)

**CHF 8'700.-**

test includes (according to EN 16147):

- Heating up period and stand by power input
- COP is determined with a tapping cycle (S, M, L, XL or XXL)

Nominal volume <sup>1</sup> in dm <sup>3</sup>	Defined tapping cycle
to 149.9	M
150.0 bis 249.9	L
from 250.0	XL
<sup>1</sup> actual content must not deviate from the nominal volume with more than 5.0%	

- Reference hot water temperature is determined
- Safety test
- Measurement of starting current
- Sound measurement of the sound power level (outdoor)
- Publication of the test results in WPZ-Bulletin and on our website [www.wpz.ch](http://www.wpz.ch)

- Operating range according to the EHPA test regulation V1.5**

**CHF 1'950.-**
- Measurement of the operating range defined by a maximum of 2 boundary conditions

- NO publication of the test results in WPZ-Bulletin and on our website**

**CHF 200.-**

- Optional sound power measurement for indoor unit**

**CHF 500.-**

- Each additional tapping cycle (S, M, L, XL or XXL)**

**CHF 6'000.-**

- Further optional measurements or tests**

**according to offer WPZ**

### 3 Test object

#### 3.1 Technical specification

Type of heat pump .....  compact device (condenser in storage)  
 .....  compact device (condenser in loading circuit)  
 .....  split device (condenser in loading circuit)

Volume of storage VN ..... Liter

Adjust of the thermostatic temperature ..... °C

Air volume flow (evaporator) ..... m<sup>3</sup>/h

Defrosting gadget available .....  yes /  no

If so, which mode of defrosting .....  reversal of process

.....  hot gas defrosting

.....  others: .....

Water volume flow (condenser) minimal ..... m<sup>3</sup>/h and maximal ..... m<sup>3</sup>/h

Voltage / frequency ..... V / Hz

Electrical input power ..... kW

Type of refrigerant .....

Capacity of refrigerant ..... kg

Dimension indoor unit (W x H x D) ..... mm

Transport weight indoor unit ..... kg

Dimension outdoor unit (W x H x D) ..... mm

Transport weight outdoor unit ..... kg

Hydraulic connection of condenser in inch: .....

..... Description:

.....  Internal screw thread  External screw thread  Threaded connection

### 3.2 Operating range

The operating range defined by a maximum of 2 boundary conditions shall be declared by the manufacturer. The corresponding relative humidities are determined according to the test regulation.

Minimum air temperature TSmin ..... °C

Minimum cold water temperature at TSmin ..... °C

Maximum hot water temperature at TSmin ..... °C

Relative humidity at TSmin ..... %

Maximum air temperature TSmax ..... °C

Minimum cold water temperature at TSmax ..... °C

Maximum hot water temperature at TSmax ..... °C

Relative humidity at TSmax ..... %

Each additional boundary condition

CHF 1'000.-

Wärmepumpen-Testzentrum WPZ  
Ostschweizer Fachhochschule OST