

## 13 Technical Data

### 13.1 General instructions



#### Information

For system technical reasons, empty columns can be displayed in the technical data, and numbers and letters that written in superscript or subscript may be displayed incorrectly, e.g:

- ▶ Sound power level LWA instead of  $L_{WA}$
- ▶ Sound pressure level LpA instead of  $L_{pA}$
- ▶ Vibration total value ahv instead of  $a_{hv}$
- ▶ Carbon dioxide CO<sub>2</sub> instead of CO<sub>2</sub>
- ▶ Unit m/s<sup>2</sup> instead of m/s<sup>2</sup>

### 13.2 Noise and vibration data

The noise and vibration data listed have been determined in accordance with the following guidelines for the typical machine operating conditions / special test conditions and using harmonized standards:

- Machinery Directive 2006/42/EC
- Noise Emission Directive 2000/14/EC

During operational use, values may differ depending on the prevailing operating conditions.

#### Sound pressure level at operator station

- $L_{pA}$  was determined according to EN ISO 11201 and EN 500-4.

#### Guaranteed sound power level

- $L_{WA}$  was determined according to EN ISO 3744 and EN 500-4.

#### Weighted vibration total value hand-arm vibration

- $a_{hv}$  was determined according to EN ISO 20643 and EN 500-4.

### 13.3 BPU52

| Type                                      | BPU5247A<br>BPU5247Ah | BPU5260A<br>BPU5260Ah |
|-------------------------------------------|-----------------------|-----------------------|
| Engine type                               | GX390 UT2X-QA-4-SD    | GX390 UT2X-QA-4-SD    |
| Centrifugal force [kN]                    | 51,4                  | 51,4                  |
| Vibrations [Hz]                           | 69                    | 69                    |
| Vibrations [1/min]                        | 4140                  | 4140                  |
| Area output* [m <sup>2</sup> /h]          | 733,2                 | 936                   |
| Flow [m/min]                              | 26                    | 26                    |
| Gradeability [%]                          | 36,4                  | 36,4                  |
| Length (drawbar in working position) [mm] | 1780                  | 1780                  |
| Width [mm]                                | 470                   | 600                   |
| Height [mm]                               | 1449                  | 1449                  |

| Type                                                                               | BPU5247A<br>BPU5247Ah     | BPU5260A<br>BPU5260Ah     |
|------------------------------------------------------------------------------------|---------------------------|---------------------------|
| <b>Engine type</b>                                                                 | <b>GX390 UT2X-QA-4-SD</b> | <b>GX390 UT2X-QA-4-SD</b> |
| Underclearance [mm]                                                                | 817                       | 817                       |
| Operating weight [kg]                                                              | 360                       | 373                       |
| Nominal power** [kW]                                                               | 8,7                       | 8,7                       |
| Rated speed [1/min]                                                                | 3600                      | 3600                      |
| Exciter oil quantity [l]                                                           | 0,75                      | 0,75                      |
| Exciter oil type                                                                   | 75W-90 API GL-4           | 75W-90 API GL-4           |
| Hydraulic oil quantity [l]                                                         | 0,5                       | 0,5                       |
| Hydraulic oil type                                                                 | Renolin MR 520            | Renolin MR 520            |
| Operating temperature range [°C]                                                   | -15 - 40°C                | -15 - 40°C                |
| Storage temperature range [°C]                                                     | -15 - 40°C                | -15 - 40°C                |
| Sound pressure level at operator station LpA [dB(A)]                               | 91                        | 91                        |
| Sound power level LWA, measured [dB(A*)]                                           | 108                       | 108                       |
| Sound power level LWA guaranteed [dB(A)]                                           | 109                       | 109                       |
| Vibration total value ahv [m/s <sup>2</sup> ]                                      | < 2,5                     | < 2,5                     |
| Measurement uncertainty of the total vibration value ahv [m/s <sup>2</sup> ]       | 0,5                       | 0,5                       |
| * Depending on the soil conditions.                                                |                           |                           |
| ** Corresponds to the installed effective power according to directive 2000/14/EG. |                           |                           |

| Type                                                 | BPU5260Ap<br>BPU5260Ahp   | BPU5275Ah<br>BPU5275A     |
|------------------------------------------------------|---------------------------|---------------------------|
| <b>Engine type</b>                                   | <b>GX390 UT2X-QA-4-SD</b> | <b>GX390 UT2X-QA-4-SD</b> |
| Centrifugal force [kN]                               | 51,4                      | 51,4                      |
| Vibrations [Hz]                                      | 69                        | 69                        |
| Vibrations [1/min]                                   | 4140                      | 4140                      |
| Area output* [m <sup>2</sup> /h]                     | 936                       | 1170                      |
| Flow [m/min]                                         | 26                        | 26                        |
| Gradeability [%]                                     | 36,4                      | 36,4                      |
| Length (drawbar in working position) [mm]            | 1780                      | 1780                      |
| Width [mm]                                           | 600                       | 750                       |
| Height [mm]                                          | 1449                      | 1449                      |
| Underclearance [mm]                                  | 817                       | 817                       |
| Operating weight [kg]                                | 380                       | 393                       |
| Nominal power** [kW]                                 | 8,7                       | 8,7                       |
| Rated speed [1/min]                                  | 3600                      | 3600                      |
| Exciter oil quantity [l]                             | 0,75                      | 0,75                      |
| Exciter oil type                                     | 75W-90 API GL-4           | 75W-90 API GL-4           |
| Hydraulic oil quantity [l]                           | 0,5                       | 0,5                       |
| Hydraulic oil type                                   | Renolin MR 520            | Renolin MR 520            |
| Operating temperature range [°C]                     | -15 - 40°C                | -15 - 40°C                |
| Storage temperature range [°C]                       | -15 - 40°C                | -15 - 40°C                |
| Sound pressure level at operator station LpA [dB(A)] | 91                        | 91                        |

| Type                                                                               | BPU5260Ap<br>BPU5260Ahp   | BPU5275Ah<br>BPU5275A     |
|------------------------------------------------------------------------------------|---------------------------|---------------------------|
| <b>Engine type</b>                                                                 | <b>GX390 UT2X-QA-4-SD</b> | <b>GX390 UT2X-QA-4-SD</b> |
| Sound power level LWA, measured [dB(A)*]                                           | 108                       | 108                       |
| Sound power level LWA guaranteed [dB(A)]                                           | 109                       | 109                       |
| Vibration total value ahv [m/s <sup>2</sup> ]                                      | < 2,5                     | < 2,5                     |
| Measurement uncertainty of the total vibration value ahv [m/s <sup>2</sup> ]       | 0,5                       | 0,5                       |
| * Depending on the soil conditions.                                                |                           |                           |
| ** Corresponds to the installed effective power according to directive 2000/14/EG. |                           |                           |

## 13.4 BPU62

| Type                                                                               | BPU6247A<br>BPU6247Ah     | BPU6260A<br>BPU6260Ah     |
|------------------------------------------------------------------------------------|---------------------------|---------------------------|
| <b>Engine type</b>                                                                 | <b>GX390 UT2X-QA-4-SD</b> | <b>GX390 UT2X-QA-4-SD</b> |
| Centrifugal force [kN]                                                             | 61,71                     | 61,71                     |
| Vibrations [Hz]                                                                    | 69                        | 69                        |
| Vibrations [1/min]                                                                 | 4140                      | 4140                      |
| Area output* [m <sup>2</sup> /h]                                                   | 846                       | 1080                      |
| Flow [m/min]                                                                       | 30                        | 26                        |
| Gradeability [%]                                                                   | 36,4                      | 36,4                      |
| Length (drawbar in working position) [mm]                                          | 1781                      | 1781                      |
| Width [mm]                                                                         | 470                       | 600                       |
| Height [mm]                                                                        | 1449                      | 1449                      |
| Underclearance [mm]                                                                | 817                       | 817                       |
| Operating weight [kg]                                                              | 419                       | 432                       |
| Nominal power** [kW]                                                               | 8,7                       | 8,7                       |
| Rated speed [1/min]                                                                | 3600                      | 3600                      |
| Exciter oil quantity [l]                                                           | 0,75                      | 0,75                      |
| Exciter oil type                                                                   | 75W-90 API GL-4           | 75W-90 API GL-4           |
| Hydraulic oil quantity [l]                                                         | 0,5                       | 0,5                       |
| Hydraulic oil type                                                                 | Renolin MR 520            | Renolin MR 520            |
| Operating temperature range [°C]                                                   | -15 - 40°C                | -15 - 40°C                |
| Storage temperature range [°C]                                                     | -15 - 40°C                | -15 - 40°C                |
| Sound pressure level at operator station LpA [dB(A)]                               | 91                        | 91                        |
| Sound power level LWA, measured [dB(A)*]                                           | 108                       | 108                       |
| Sound power level LWA guaranteed [dB(A)]                                           | 109                       | 109                       |
| Vibration total value ahv [m/s <sup>2</sup> ]                                      | < 2,5                     | < 2,5                     |
| Measurement uncertainty of the total vibration value ahv [m/s <sup>2</sup> ]       | 0,5                       | 0,5                       |
| * Depending on the soil conditions.                                                |                           |                           |
| ** Corresponds to the installed effective power according to directive 2000/14/EG. |                           |                           |

| Type                                                                               | BPU6260Ap<br>BPU6260Ahp | BPU6275A<br>BPU6275Ah |
|------------------------------------------------------------------------------------|-------------------------|-----------------------|
| Engine type                                                                        | GX390 UT2X-QA-4-SD      | GX390 UT2X-QA-4-SD    |
| Centrifugal force [kN]                                                             | 61,71                   | 61,71                 |
| Vibrations [Hz]                                                                    | 69                      | 69                    |
| Vibrations [1/min]                                                                 | 4140                    | 4140                  |
| Area output* [m <sup>2</sup> /h]                                                   | 1080                    | 1227,2                |
| Flow [m/min]                                                                       | 30                      | 27,27                 |
| Gradeability [%]                                                                   | 36,4                    | 36,4                  |
| Length (drawbar in working position) [mm]                                          | 1781                    | 1781                  |
| Width [mm]                                                                         | 600                     | 750                   |
| Height [mm]                                                                        | 1449                    | 1449                  |
| Underclearance [mm]                                                                | 817                     | 817                   |
| Operating weight [kg]                                                              | 439                     | 452                   |
| Nominal power** [kW]                                                               | 8,7                     | 8,7                   |
| Rated speed [1/min]                                                                | 3600                    | 3600                  |
| Exciter oil quantity [l]                                                           | 0,75                    | 0,75                  |
| Exciter oil type                                                                   | 75W-90 API GL-4         | 75W-90 API GL-4       |
| Hydraulic oil quantity [l]                                                         | 0,5                     | 0,5                   |
| Hydraulic oil type                                                                 | Renolin MR 520          | Renolin MR 520        |
| Operating temperature range [°C]                                                   | -15 - 40°C              | -15 - 40°C            |
| Storage temperature range [°C]                                                     | -15 - 40°C              | -15 - 40°C            |
| Sound pressure level at operator station LpA [dB(A)]                               | 91                      | 91                    |
| Sound power level LWA, measured [dB(A*)]                                           | 108                     | 108                   |
| Sound power level LWA guaranteed [dB(A)]                                           | 109                     | 109                   |
| Vibration total value ahv [m/s <sup>2</sup> ]                                      | < 2,5                   | < 2,5                 |
| Measurement uncertainty of the total vibration value ahv [m/s <sup>2</sup> ]       | 0,5                     | 0,5                   |
| * Depending on the soil conditions.                                                |                         |                       |
| ** Corresponds to the installed effective power according to directive 2000/14/EG. |                         |                       |

## 13.5 Combustion engine

| Engine manufacturer               | Honda              |
|-----------------------------------|--------------------|
| Engine type                       | GX390 UT2X-QA-4-SD |
| Combustion processes              | four-stroke        |
| Cooling                           | Air                |
| Cylinder                          | 1                  |
| Cubic capacity [cm <sup>3</sup> ] | 389                |
| Inclined position max. [°]        | 20                 |
| Fuel type                         | Gasoline           |
| Fuel consumption [l/h]            | 2                  |
| Tank volume [l]                   | 6,1                |
| Oil specification                 | SAE 10W-30         |
| Oil filling max. [l]              | 1.1                |

| Engine manufacturer                                                                                                          | Honda                   |
|------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Output max. [kW]                                                                                                             | 8,7                     |
| RPM [1/min]                                                                                                                  | 3600                    |
| Standard                                                                                                                     | SAE J1349               |
| Exhaust-emission level                                                                                                       | EU Level V, EPA level 4 |
| CO2 emission* [g/kWh]                                                                                                        | 743                     |
| Spark plug type                                                                                                              | NGK BPR 6ES             |
| Electrode gap [mm]                                                                                                           | 0,7 - 0,8               |
| * Determined value of the CO2 emission during engine certification without consideration of the applications on the machine. |                         |

## 13.6 Conversion table

The following conversion tables enable the conversion of the metric values from the instructions, in particular the technical data, into the imperial.

| Conversion table     |                           |
|----------------------|---------------------------|
| <b>Volume units</b>  |                           |
| 1 cm <sup>3</sup>    | 0.061 in <sup>3</sup>     |
| 1 m <sup>3</sup>     | 35.31 ft <sup>3</sup>     |
| 1 ml                 | 0.034 US fl.oz.           |
| 1 l                  | 0.26 gal.                 |
| 1 l/min              | 0.26 gal./min             |
| <b>Length units</b>  |                           |
| 1 mm                 | 0.039 in                  |
| 1 m                  | 3.28 ft                   |
| <b>Weights</b>       |                           |
| 1 kg                 | 2.2 lbs.                  |
| 1 g                  | 0.035 oz.                 |
| <b>Pressure</b>      |                           |
| 1 bar                | 14.5 psi                  |
| 1 kg/cm <sup>2</sup> | 14.22 lbs/in <sup>2</sup> |
| <b>Force/output</b>  |                           |
| 1 kN                 | 224.81 lbf                |
| 1 kW                 | 1.34 hp                   |
| 1 PS                 | 0.986 hp                  |
| <b>Torque</b>        |                           |
| 1 Nm                 | 0.74 ft.lbs               |
| <b>Speed</b>         |                           |
| 1 km/h               | 0.62 mph                  |
| <b>Acceleration</b>  |                           |
| 1 m/s <sup>2</sup>   | 3.28 ft./s <sup>2</sup>   |