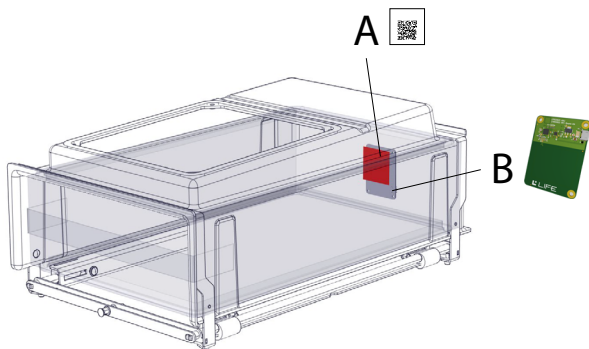


NFC BOARD

The NFC BOARD is used in Air Handling Units (AHU). Air Handling Units are designed to provide a continuous supply of HEPA filtered air to a number of IVC cages housed in special racks and to extract exhaust air from each cage, filter it through an H14 HEPA filter and release it into the environment.

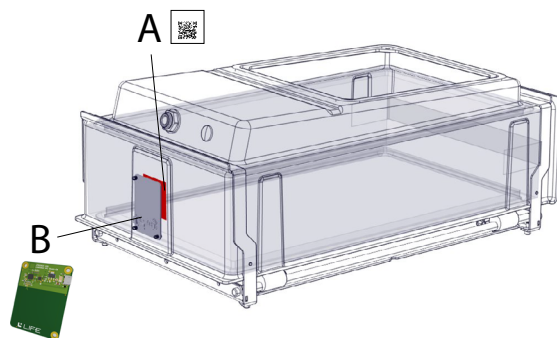
The board is designed to read RFID tags attached to the HEPA filter in order to detect the use of an unrecognised filter. For this purpose, the NFC BOARD is placed on the bottom side of the supporting filter frame, both supply and exhaust.

The NFC board is managed by the main control board of the AHU via USB port.



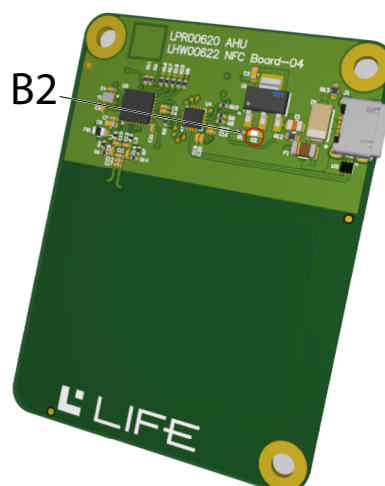
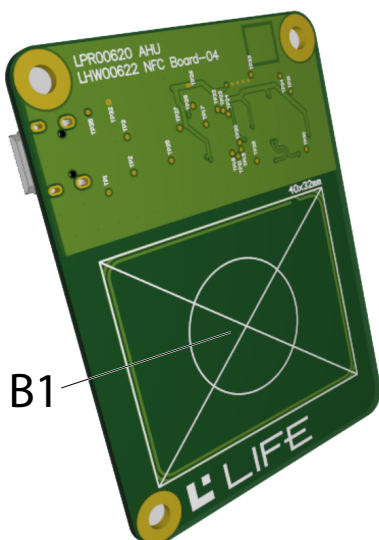
A. FILTER TAG

B. NFC BOARD



B1. NFC BOARD ANTENNA

B2. NFC BOARD POWER LED



TECHNICAL DATA:

FREQUENCY ENERGY CARRIER OUTPUT	13.56 MHz
TRANSMITTER OUTPUT POWER (TYP)	55 mW (on 27 Ω output matching network)
PCB ANTENNA	2 rounds, 40 x 32 mm
MAXIMUM ANTENNA GAIN	1.76 dBi
USB MICRO-B 2.0 CONNECTION	Supply voltage: 4.75÷5.25 V, supply current 10 mA
COMPLIANCE TO STANDARDS AND DIRECTIVES	

DIRECTIVE 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC IEC 61010-1:2010 Safety requirements for electrical equipment for measurement, control and laboratory use Part 1: general requirements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.”

“No changes shall be made to the equipment without the manufacturer’s permission as this may void the user’s authority to operate the equipment.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada’s licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs / récepteurs exemptés de licence conformes aux RSS (RSS) d’Innovation, Sciences et Développement économique Canada. L’exploitation est autorisée aux deux conditions

suivantes: (1) l’appareil ne doit pas produire de brouillage, et (2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.