

# Iso Box-F (V2)

Sound-insulated centrifugal fans with filters

## Use

- Supply ventilation systems installed in premises with high requirements to clean air and the noise level.
- Suitable for limited mounting space.
- Compatible with Ø 100 up to 200 mm round air ducts.



**Air flow:**  
up to 630 m³/h  
175 l/s



**Power:**  
from 32 W



**Noise level:**  
from 14 dBA



## Design

- The casing is made of polymer-coated steel, internally filled with sound-insulating layer.
- Internal airtight terminal box for power supply.
- Easy access for filter maintenance.

## Motors

- Iso Box-F** series: four-pole asynchronous motor with external rotor and centrifugal impeller with forward curved blades.
- Iso Box-F V2** series: two-speed asynchronous motor with external rotor and centrifugal impeller with forward curved blades.
- Equipped with ball bearings for longer service life.
- Integrated thermal protection with automatic restart.
- Dynamically balanced impeller.

## Speed control

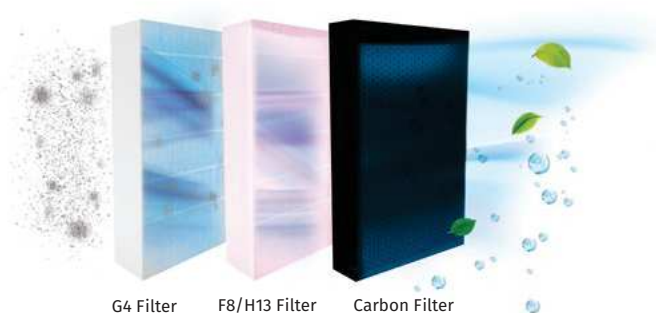
- Iso Box-F** series: Smooth speed control with an external CDT E1.8 thyristor controller (available upon separate order).
- Iso Box-F V2** series: Two-speed control with the external CDP-2/10 speed switch (available upon separate order).

## Mounting

- Due to compact design is the ideal solution for mounting in limited spaces, including the space behind false ceiling.
- Any mounting position.
- Wall or ceiling mounting with fixing brackets supplied as a standard.

## Air filtration

- Built-in filters provide efficient air filtration. Up to three filters can be installed into the fan.
- G4 filter provides primary filtration. At the second stage, the secondary filter F8 or HEPA filter H13 can be installed. F8 filter arrests up to 98 % of PM2.5 dust particles. H13 filter arrest up to 99 % of PM2.5 dust particles, pollen and bacteria. For additional removal of odors and gases carbon filter can be installed.
- Quick access to replaceable filters through service panel.



G4 Filter

F8/H13 Filter

Carbon Filter

### Designation key

| Series    | Duct diameter [mm] | Filters                                        | Motor modification                        | Speed                         |
|-----------|--------------------|------------------------------------------------|-------------------------------------------|-------------------------------|
| Iso Box-F | 100; 150; 200      | G4; G4-F8; G4-F8-Carbon; G4-H13; G4-H13-Carbon | -: standard Model<br>L: low-powered motor | -: one speed<br>V2: two-speed |

### Accessories

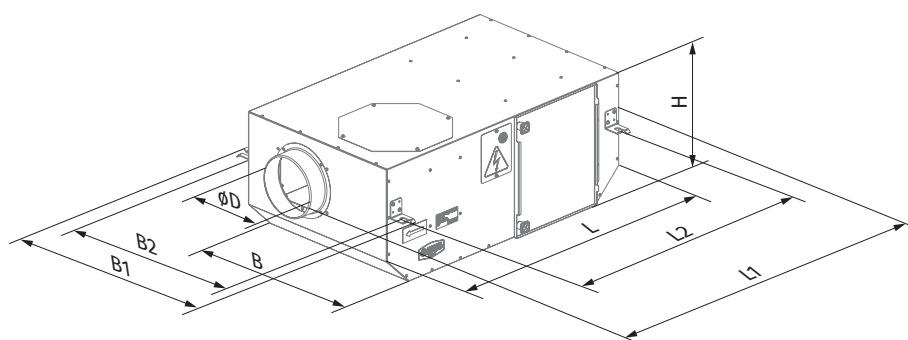
| Air disc valves | Duct system | Flexible air ducts | Grilles and hoods | Speed controllers   | Clamps |
|-----------------|-------------|--------------------|-------------------|---------------------|--------|
|                 |             |                    |                   |                     |        |
| VPR / VSR / VMR | BlauPlast   | BlauFlex           | Decor / GM        | CDT E1.8 / CDP-2/10 | K / KZ |

## Replaceable filters

|                     |                                                                                   | Iso Box-F 100 (V2) | Iso Box-F 150 (V2) | Iso Box-F 150 L (V2) | Iso Box-F 200 (V2) |
|---------------------|-----------------------------------------------------------------------------------|--------------------|--------------------|----------------------|--------------------|
| G4 Panel filter     |  | FP 220x400x47 G4   | FP 270x425x47 G4   | FP 220x400x47 G4     | FP 270x590x47 G4   |
| F8 Panel filter     |  | FP 220x400x47 F8   | FP 270x425x47 F8   | FP 220x400x47 F8     | FP 270x590x47 F8   |
| H13 Panel filter    |  | FP 220x400x47 H13  | FP 270x425x47 H13  | FP 220x400x47 H13    | FP 270x590x47 H13  |
| Carbon panel filter |  | FP 220x400x47 C    | FP 270x425x47 C    | FP 220x400x47 C      | FP 270x590x47 C    |

## Overall dimensions [mm]

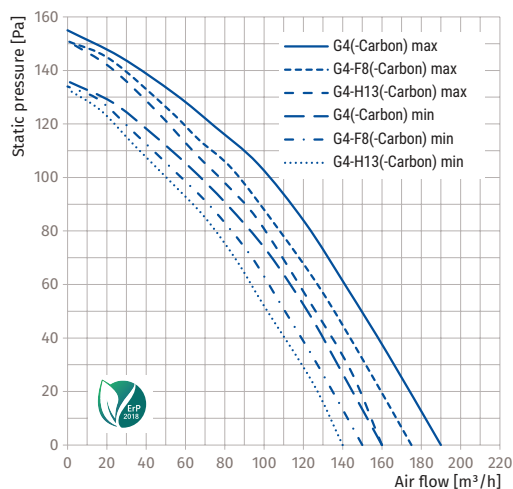
| Model                              | Ø D | L   | H   | B   | L1  | B1  | L2  | B2  | Weight [kg] |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------------|
| Iso Box-F 100 G4 (V2)              | 100 | 705 | 250 | 415 | 805 | 508 | 650 | 458 | 13.95       |
| Iso Box-F 100 G4-F8 (V2)           | 100 | 705 | 250 | 415 | 805 | 508 | 650 | 458 | 14.16       |
| Iso Box-F 100 G4-F8-Carbon (V2)    | 100 | 705 | 250 | 415 | 805 | 508 | 650 | 458 | 14.86       |
| Iso Box-F 100 G4-H13 (V2)          | 100 | 705 | 250 | 415 | 805 | 508 | 650 | 458 | 14.16       |
| Iso Box-F 100 G4-H13-Carbon (V2)   | 100 | 705 | 250 | 415 | 805 | 508 | 650 | 458 | 14.86       |
| Iso Box-F 150 G4 (V2)              | 150 | 735 | 300 | 440 | 835 | 533 | 680 | 483 | 15.92       |
| Iso Box-F 150 G4-F8 (V2)           | 150 | 735 | 300 | 440 | 835 | 533 | 680 | 483 | 16.17       |
| Iso Box-F 150 G4-F8-Carbon (V2)    | 150 | 735 | 300 | 440 | 835 | 533 | 680 | 483 | 17.08       |
| Iso Box-F 150 G4-H13 (V2)          | 150 | 735 | 300 | 440 | 835 | 533 | 680 | 483 | 16.17       |
| Iso Box-F 150 G4-H13-Carbon (V2)   | 150 | 735 | 300 | 440 | 835 | 533 | 680 | 483 | 17.08       |
| Iso Box-F 150 G4 L (V2)            | 150 | 705 | 250 | 415 | 805 | 508 | 650 | 458 | 13.96       |
| Iso Box-F 150 G4-F8 L (V2)         | 150 | 705 | 250 | 415 | 805 | 508 | 650 | 458 | 14.17       |
| Iso Box-F 150 G4-F8-Carbon L (V2)  | 150 | 705 | 250 | 415 | 805 | 508 | 650 | 458 | 14.87       |
| Iso Box-F 150 G4-H13 L (V2)        | 150 | 705 | 250 | 415 | 805 | 508 | 650 | 458 | 14.17       |
| Iso Box-F 150 G4-H13-Carbon L (V2) | 150 | 705 | 250 | 415 | 805 | 508 | 650 | 458 | 14.87       |
| Iso Box-F 200 G4 (V2)              | 200 | 735 | 300 | 605 | 835 | 698 | 680 | 648 | 18.72       |
| Iso Box-F 200 G4-F8 (V2)           | 200 | 735 | 300 | 605 | 835 | 698 | 680 | 648 | 19.10       |
| Iso Box-F 200 G4-F8-Carbon (V2)    | 200 | 735 | 300 | 605 | 835 | 698 | 680 | 648 | 20.32       |
| Iso Box-F 200 G4-H13 (V2)          | 200 | 735 | 300 | 605 | 835 | 698 | 680 | 648 | 19.10       |
| Iso Box-F 200 G4-H13-Carbon (V2)   | 200 | 735 | 300 | 605 | 835 | 698 | 680 | 648 | 20.32       |



| Parameters                       | Iso Box-F 100 G4 V2<br>Iso Box-F 100 G4-Carbon V2 |          | Iso Box-F 100 G4-F8 V2<br>Iso Box-F 100 G4-F8-Carbon V2 |          | Iso Box-F 100 G4-H13 V2<br>Iso Box-F 100 G4-H13-Carbon V2 |          |
|----------------------------------|---------------------------------------------------|----------|---------------------------------------------------------|----------|-----------------------------------------------------------|----------|
| Speed                            | min                                               | max      | min                                                     | max      | min                                                       | max      |
| Voltage [V]                      | 1 ~ 230                                           |          | 1 ~ 230                                                 |          | 1 ~ 230                                                   |          |
| Frequency [Hz]                   | 50                                                |          | 50                                                      |          | 50                                                        |          |
| Power [W]                        | 34                                                | 42       | 33                                                      | 41       | 32                                                        | 41       |
| Current [A]                      | 0.15                                              | 0.19     | 0.15                                                    | 0.19     | 0.15                                                      | 0.19     |
| Maximum air flow [m³/h (l/s)]    | 160 (44)                                          | 190 (53) | 150 (42)                                                | 175 (49) | 140 (39)                                                  | 160 (44) |
| RPM [min⁻¹]                      | 700                                               | 1200     | 700                                                     | 1200     | 700                                                       | 1200     |
| Sound pressure at 3 m [dBA]      | 14                                                | 23       | 14                                                      | 23       | 14                                                        | 23       |
| Transported air temperature [°C] | -25..+40                                          |          | -25..+40                                                |          | -25..+40                                                  |          |
| IP rating                        | IPX4                                              |          | IPX4                                                    |          | IPX4                                                      |          |
| PM2.5 Ratio [%]                  | 35                                                | 31       | 94                                                      | 93       | 99                                                        | 98       |
| SEC class                        | D                                                 |          | E                                                       |          | E                                                         |          |
| ErP                              | 2018                                              |          | -                                                       |          | -                                                         |          |

### ISO BOX-F 100 V2

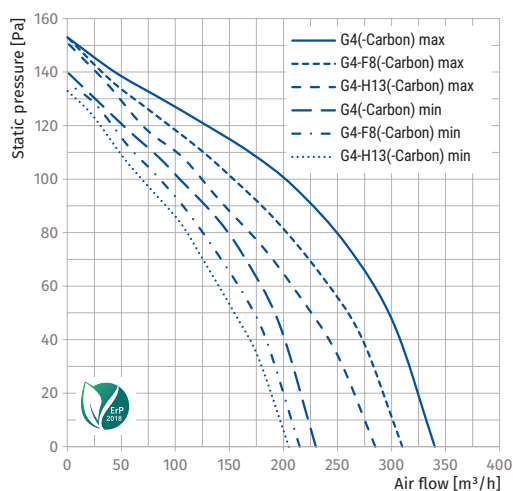
| Sound power level, A-weighted |                                      | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m [dBA] | LpA 1 m [dBA] |
|-------------------------------|--------------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------------|---------------|
|                               |                                      |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |               |               |
| min                           | L <sub>WA</sub> to inlet [dBA]       | 41    | 26                          | 28  | 33  | 35  | 36   | 33   | 28   | 22   | 20            | 30            |
|                               | L <sub>WA</sub> to outlet [dBA]      | 43    | 22                          | 35  | 39  | 37  | 37   | 27   | 20   | 11   | 23            | 33            |
|                               | L <sub>WA</sub> to environment [dBA] | 35    | 23                          | 26  | 26  | 29  | 27   | 26   | 23   | 20   | 14            | 24            |
| max                           | L <sub>WA</sub> to inlet [dBA]       | 48    | 32                          | 34  | 40  | 42  | 43   | 40   | 34   | 26   | 27            | 37            |
|                               | L <sub>WA</sub> to outlet [dBA]      | 51    | 27                          | 42  | 47  | 45  | 44   | 32   | 24   | 13   | 30            | 40            |
|                               | L <sub>WA</sub> to environment [dBA] | 43    | 31                          | 34  | 35  | 38  | 36   | 34   | 31   | 26   | 23            | 33            |



| Parameters                       | Iso Box-F 150 G4 L V2<br>Iso Box-F 150 G4-Carbon L V2 |          | Iso Box-F 150 G4-F8 L V2<br>Iso Box-F 150 G4-F8-Carbon L V2 |          | Iso Box-F 150 G4-H13 L V2<br>Iso Box-F 150 G4-H13-Carbon L V2 |          |
|----------------------------------|-------------------------------------------------------|----------|-------------------------------------------------------------|----------|---------------------------------------------------------------|----------|
|                                  | min                                                   | max      | min                                                         | max      | min                                                           | max      |
| Speed                            |                                                       |          |                                                             |          |                                                               |          |
| Voltage [V]                      | 1 ~ 230                                               |          | 1 ~ 230                                                     |          | 1 ~ 230                                                       |          |
| Frequency [Hz]                   | 50                                                    |          | 50                                                          |          | 50                                                            |          |
| Power [W]                        | 44                                                    | 52       | 41                                                          | 50       | 40                                                            | 48       |
| Current [A]                      | 0.19                                                  | 0.23     | 0.18                                                        | 0.22     | 0.18                                                          | 0.21     |
| Maximum air flow [m³/h (l/s)]    | 230 (64)                                              | 340 (94) | 215 (60)                                                    | 310 (86) | 205 (57)                                                      | 285 (79) |
| RPM [min⁻¹]                      | 700                                                   | 1200     | 700                                                         | 1200     | 700                                                           | 1200     |
| Sound pressure at 3 m [dBA]      | 15                                                    | 25       | 15                                                          | 25       | 15                                                            | 25       |
| Transported air temperature [°C] | -25..+40                                              |          | -25..+40                                                    |          | -25..+40                                                      |          |
| IP rating                        | IPX4                                                  |          | IPX4                                                        |          | IPX4                                                          |          |
| PM2.5 Ratio [%]                  | 31                                                    | 23       | 90                                                          | 87       | 93                                                            | 92       |
| SEC class                        | C                                                     |          | C                                                           |          | D                                                             |          |
| ErP                              | 2018                                                  |          | 2018                                                        |          | 2018                                                          |          |

### ISO BOX-F 150 L V2

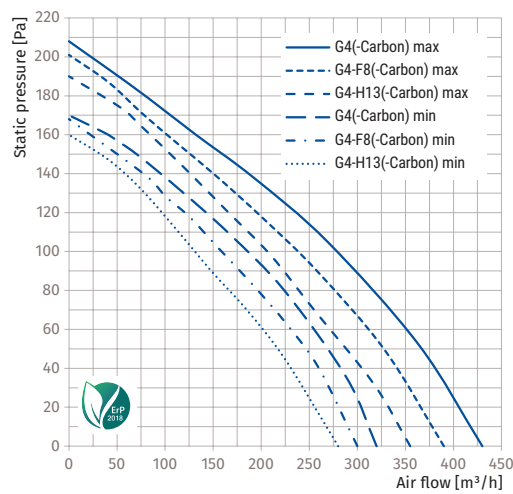
| Sound power level, A-weighted |                          | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m [dBA] | LpA 1 m [dBA] |
|-------------------------------|--------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------------|---------------|
|                               |                          |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |               |               |
| min                           | LWA to inlet [dBA]       | 45    | 24                          | 37  | 41  | 39  | 38   | 28   | 21   | 11   | 25            | 35            |
|                               | LWA to outlet [dBA]      | 48    | 32                          | 34  | 40  | 42  | 43   | 40   | 34   | 26   | 27            | 37            |
|                               | LWA to environment [dBA] | 36    | 20                          | 26  | 31  | 29  | 28   | 26   | 23   | 17   | 15            | 25            |
| max                           | LWA to inlet [dBA]       | 53    | 28                          | 44  | 49  | 47  | 46   | 34   | 25   | 14   | 33            | 43            |
|                               | LWA to outlet [dBA]      | 56    | 39                          | 41  | 48  | 51  | 52   | 48   | 41   | 32   | 36            | 46            |
|                               | LWA to environment [dBA] | 45    | 26                          | 35  | 41  | 39  | 37   | 34   | 30   | 23   | 25            | 35            |



| Parameters                       | Iso Box-F 150 G4 V2<br>Iso Box-F 150 G4-Carbon V2 |           | Iso Box-F 150 G4-F8 V2<br>Iso Box-F 150 G4-F8-Carbon V2 |           | Iso Box-F 150 G4-H13 V2<br>Iso Box-F 150 G4-H13-Carbon V2 |          |
|----------------------------------|---------------------------------------------------|-----------|---------------------------------------------------------|-----------|-----------------------------------------------------------|----------|
| Speed                            | min                                               | max       | min                                                     | max       | min                                                       | max      |
| Voltage [V]                      | 1 ~ 230                                           |           | 1 ~ 230                                                 |           | 1 ~ 230                                                   |          |
| Frequency [Hz]                   | 50                                                |           | 50                                                      |           | 50                                                        |          |
| Power [W]                        | 92                                                | 117       | 89                                                      | 115       | 85                                                        | 114      |
| Current [A]                      | 0.41                                              | 0.55      | 0.41                                                    | 0.55      | 0.38                                                      | 0.54     |
| Maximum air flow [m³/h (l/s)]    | 320 (89)                                          | 430 (119) | 300 (83)                                                | 390 (108) | 280 (78)                                                  | 355 (99) |
| RPM [min⁻¹]                      | 700                                               | 1200      | 700                                                     | 1200      | 700                                                       | 1200     |
| Sound pressure at 3 m [dBA]      | 16                                                | 27        | 16                                                      | 27        | 16                                                        | 27       |
| Transported air temperature [°C] | -25...+40                                         |           | -25...+40                                               |           | -25...+40                                                 |          |
| IP rating                        | IPX4                                              |           | IPX4                                                    |           | IPX4                                                      |          |
| PM2.5 Ratio [%]                  | 47                                                | 41        | 95                                                      | 94        | 98                                                        | 96       |
| SEC class                        | D                                                 |           | C                                                       |           | E                                                         |          |
| ErP                              | 2018                                              |           | 2018                                                    |           | -                                                         |          |

### ISO BOX-F 150 V2

| Sound power level, A-weighted |                                      | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m [dBA] | LpA 1 m [dBA] |
|-------------------------------|--------------------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------------|---------------|
|                               |                                      |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |               |               |
| min                           | L <sub>WA</sub> to inlet [dBA]       | 44    | 31                          | 32  | 38  | 41  | 33   | 32   | 31   | 22   | 24            | 34            |
|                               | L <sub>WA</sub> to outlet [dBA]      | 48    | 34                          | 32  | 38  | 44  | 41   | 41   | 36   | 28   | 28            | 38            |
|                               | L <sub>WA</sub> to environment [dBA] | 36    | 27                          | 29  | 30  | 32  | 26   | 21   | 20   | 17   | 16            | 26            |
| max                           | L <sub>WA</sub> to inlet [dBA]       | 53    | 39                          | 40  | 47  | 50  | 41   | 40   | 38   | 27   | 33            | 43            |
|                               | L <sub>WA</sub> to outlet [dBA]      | 58    | 42                          | 39  | 47  | 54  | 50   | 51   | 45   | 35   | 37            | 47            |
|                               | L <sub>WA</sub> to environment [dBA] | 48    | 38                          | 40  | 41  | 44  | 36   | 29   | 28   | 24   | 27            | 37            |



| Parameters                       | Iso Box-F 200 G4 V2<br>Iso Box-F 200 G4-Carbon V2 |           | Iso Box-F 200 G4-F8 V2<br>Iso Box-F 200 G4-F8-Carbon V2 |           | Iso Box-F 200 G4-H13 V2<br>Iso Box-F 200 G4-H13-Carbon V2 |           |
|----------------------------------|---------------------------------------------------|-----------|---------------------------------------------------------|-----------|-----------------------------------------------------------|-----------|
|                                  | min                                               | max       | min                                                     | max       | min                                                       | max       |
| Speed                            |                                                   |           |                                                         |           |                                                           |           |
| Voltage [V]                      | 1 ~ 230                                           |           | 1 ~ 230                                                 |           | 1 ~ 230                                                   |           |
| Frequency [Hz]                   | 50                                                |           | 50                                                      |           | 50                                                        |           |
| Power [W]                        | 106                                               | 123       | 103                                                     | 121       | 97                                                        | 119       |
| Current [A]                      | 0.47                                              | 0.59      | 0.45                                                    | 0.57      | 0.43                                                      | 0.55      |
| Maximum air flow [m³/h (l/s)]    | 390 (108)                                         | 630 (175) | 380 (106)                                               | 590 (164) | 350 (97)                                                  | 525 (146) |
| RPM [min⁻¹]                      | 700                                               | 1200      | 700                                                     | 1200      | 700                                                       | 1200      |
| Sound pressure at 3 m [dBA]      | 22                                                | 38        | 22                                                      | 38        | 22                                                        | 38        |
| Transported air temperature [°C] | -25..+40                                          |           | -25..+40                                                |           | -25..+40                                                  |           |
| IP rating                        | IPX4                                              |           | IPX4                                                    |           | IPX4                                                      |           |
| PM2.5 Ratio [%]                  | 37                                                | 28        | 98                                                      | 97        | 99                                                        | 98        |
| SEC class                        | C                                                 |           | D                                                       |           | D                                                         |           |
| ErP                              | 2018                                              |           | 2018                                                    |           | 2018                                                      |           |

### ISO BOX-F 200 V2

| Sound power level, A-weighted |                          | Total | Octave frequency bands [Hz] |     |     |     |      |      |      |      | LpA 3 m [dBA] | LpA 1 m [dBA] |
|-------------------------------|--------------------------|-------|-----------------------------|-----|-----|-----|------|------|------|------|---------------|---------------|
|                               |                          |       | 63                          | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |               |               |
| min                           | LWA to inlet [dBA]       | 55    | 44                          | 45  | 47  | 48  | 47   | 48   | 46   | 44   | 35            | 45            |
|                               | LWA to outlet [dBA]      | 58    | 46                          | 45  | 54  | 51  | 49   | 47   | 44   | 38   | 37            | 47            |
|                               | LWA to environment [dBA] | 43    | 31                          | 34  | 38  | 39  | 28   | 24   | 21   | 25   | 22            | 32            |
| max                           | LWA to inlet [dBA]       | 67    | 55                          | 56  | 58  | 60  | 58   | 59   | 57   | 55   | 46            | 56            |
|                               | LWA to outlet [dBA]      | 71    | 58                          | 56  | 68  | 63  | 61   | 59   | 55   | 47   | 50            | 60            |
|                               | LWA to environment [dBA] | 58    | 44                          | 48  | 54  | 55  | 40   | 34   | 30   | 36   | 38            | 48            |

