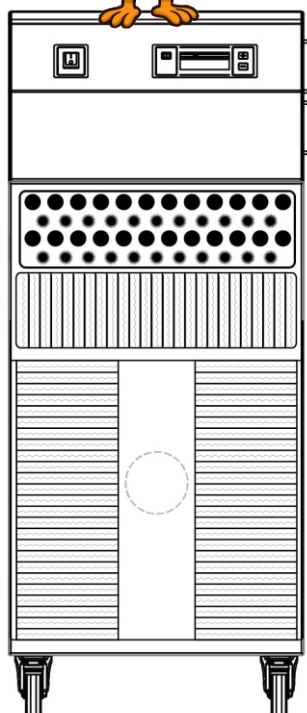


## TFS 220 PLUS



### TFS 220 PLUS TECHNICAL DATA

|                    |          |                     |              |                    |
|--------------------|----------|---------------------|--------------|--------------------|
| Free Airflow       | 147      | CFM                 | 250          | m <sup>3</sup> /hr |
| Effective Airflow  | 30-118   | CFM                 | 50-200       | m <sup>3</sup> /hr |
| Static Pressure    | 80.3     | in/H <sub>2</sub> O | 20,000       | PA                 |
| Voltage            | 100-240  | V                   | NEMA 5-15    | Plug               |
| Intake Socket      | 3.1      | inches              | 80           | mm                 |
| Outlet Socket      | 4.9      | inches              | 125          | mm                 |
| Weight             | 254      | lbs                 | 115          | kg                 |
| Dimensions (HxWxD) | 42x19x22 | inches              | 1050x480x540 | mm                 |

### TFS 250 PLUS FILTER DATA

|              |                  |          |                                            |
|--------------|------------------|----------|--------------------------------------------|
| Part # 21076 | SafeLine (F9)    | Included | 172.2 ft <sup>2</sup> or 16 m <sup>2</sup> |
| Part # 21077 | HEPA (H14)       | Included | 64.6 ft <sup>2</sup> or 6 m <sup>2</sup>   |
| Part # 21081 | Activated Carbon | Included | 33 lbs or 30 liters                        |

## ACCESSORIES



CONNECTION KITS



SPARK ARRESTORS



HARTING CONNECTIONS



COMMUNICATION CABLE



SIGNAL MODULE



FIG.1



FIG.2



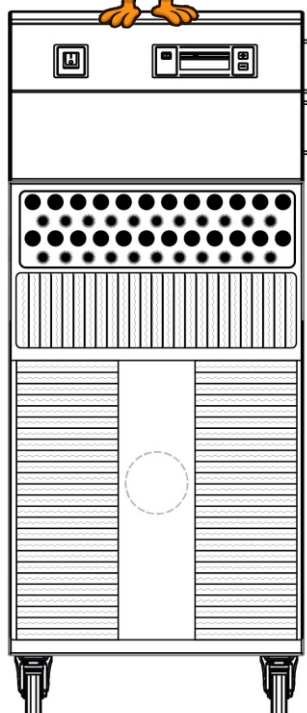
FIG.3



FIG.4

| System and Factory-Installed Options                                         | Part #      |
|------------------------------------------------------------------------------|-------------|
| <i>TFS 220 PLUS (100-240V)</i>                                               | 90500       |
| <i>TFS 220 with Spark Extinguisher and Gravity Drop-Out Chamber (Fig. 1)</i> | 90500-21235 |
| <i>TFS 220 with Spark Extinguisher (Fig. 2)</i>                              | 90500-21236 |
| <i>TFS 220 with Extraction Arm 75-AL (L=50 inches) (Fig. 3)</i>              | 90500-21239 |
| <i>TFS 220 with Extraction Arm 75-AL and Spark Extinguisher (Fig. 4)</i>     | 90500-21241 |

## TFS 230 PLUS



### TFS 230 PLUS TECHNICAL DATA

|                    |          |                     |              |                    |
|--------------------|----------|---------------------|--------------|--------------------|
| Free Airflow       | 206      | CFM                 | 350          | m <sup>3</sup> /hr |
| Effective Airflow  | 59-176   | CFM                 | 100-300      | m <sup>3</sup> /hr |
| Static Pressure    | 24.1     | in/H <sub>2</sub> O | 6,000        | PA                 |
| Voltage            | 100-240  | V                   | NEMA 5-15    | Plug               |
| Intake Socket      | 3.1      | inches              | 80           | mm                 |
| Outlet Socket      | 4.9      | inches              | 125          | mm                 |
| Weight             | 254      | lbs                 | 115          | kg                 |
| Dimensions (HxWxD) | 42x19x22 | inches              | 1050x480x540 | mm                 |

### TFS 250 PLUS FILTER DATA

|              |                  |          |                                            |
|--------------|------------------|----------|--------------------------------------------|
| Part # 21076 | SafeLine (F9)    | Included | 172.2 ft <sup>2</sup> or 16 m <sup>2</sup> |
| Part # 21077 | HEPA (H14)       | Included | 64.6 ft <sup>2</sup> or 6 m <sup>2</sup>   |
| Part # 21081 | Activated Carbon | Included | 33 lbs or 30 liters                        |

## ACCESSORIES



CONNECTION KITS



SPARK ARRESTORS



HARTING CONNECTIONS



COMMUNICATION CABLE



SIGNAL MODULE



FIG.1



FIG.2



FIG.3



FIG.4

### Factory-Installed Options

*TFS 230 PLUS (100-240V)*

Part #

90499

*TFS 230 with Spark Extinguisher and Gravity Drop-Out Chamber (Fig. 1)*

90499-21235

*TFS 230 with Spark Extinguisher (Fig. 2)*

90499-21236

*TFS 230 with Extraction Arm 75-AL (L=50 inches) (Fig. 3)*

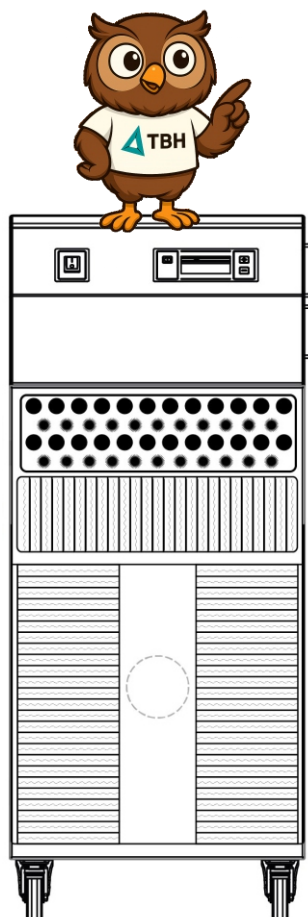
90499-21239

*TFS 230 with Extraction Arm 75-AL and Spark Extinguisher (Fig. 4)*

90499-21241



# TFS 250 PLUS



## TFS 250 PLUS TECHNICAL DATA

|                    |              |                     |              |       |
|--------------------|--------------|---------------------|--------------|-------|
| Free Airflow       | 120V: 264    | CFM                 | 120v: 450    | m³/hr |
|                    | 230V: 294    |                     | 230v: 500    |       |
| Effective Airflow  | 120V: 30-235 | CFM                 | 120V: 50-400 | m³/hr |
|                    | 230V: 30-265 |                     | 230V: 50-450 |       |
| Static Pressure    | 60.3         | in/H <sub>2</sub> O | 15,000       | PA    |
| Voltage            | 120          | V                   | NEMA 5-20    | Plug  |
|                    | 230          |                     | NEMA 6-20    |       |
| Intake Socket      | 3.1          | inches              | 80           | mm    |
| Outlet Socket      | 4.9          | inches              | 125          | mm    |
| Weight             | 254          | lbs                 | 115          | kg    |
| Dimensions (HxWxD) | 42x19x22     | inches              | 1050x480x540 | mm    |

## TFS 250 PLUS FILTER DATA

|              |                  |          |                     |
|--------------|------------------|----------|---------------------|
| Part # 21076 | SafeLine (F9)    | Included | 172.2 ft² or 16 m²  |
| Part # 21077 | HEPA (H14)       | Included | 64.6 ft² or 6 m²    |
| Part # 21081 | Activated Carbon | Included | 33 lbs or 30 liters |

## ACCESSORIES



CONNECTION KITS



SPARK ARRESTORS



HARTING CONNECTIONS



COMMUNICATION CABLE



SIGNAL MODULE

**FILTERS INSTALLED**  
**30 L OF ACTIVATED CARBON**  
**HEPA H14 PARTICLE FILTER**  
**LARGE 16 M<sup>2</sup> PRE-FILTER**



### Factory-Installed Options

*TFS 250 PLUS (120V)*

### Part #

**90505**

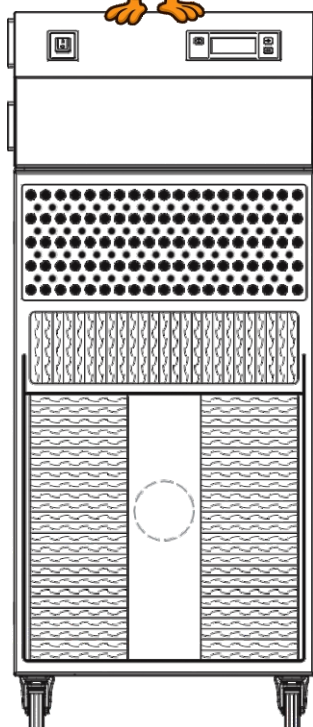
*TFS 250 PLUS (230V)*

**90501**

*TFS 250 with Extraction Arm 75-AL (L=50 inches)*

**905xx-21239**

# TFS 1000 PLUS



## TFS 1000 PLUS TECHNICAL DATA

|                    |          |                     |              |                    |
|--------------------|----------|---------------------|--------------|--------------------|
| Free Airflow       | 530      | CFM                 | 900          | m <sup>3</sup> /hr |
| Effective Airflow  | 118-412  | CFM                 | 200-700      | m <sup>3</sup> /hr |
| Static Pressure    | 14.9     | in/H <sub>2</sub> O | 3,700        | PA                 |
| Voltage            | 100-240  | V                   | NEMA 5-20    | Plug               |
| Intake Socket      | 4.9      | inches              | 125          | mm                 |
| Outlet Socket      | 6.3      | inches              | 160          | mm                 |
| Weight             | 331      | lbs                 | 150          | kg                 |
| Dimensions (HxWxD) | 52x22x29 | inches              | 1300x540x730 | mm                 |

## TFS 1000 PLUS FILTER DATA

|              |                  |            |                                            |
|--------------|------------------|------------|--------------------------------------------|
| Part # 16196 | SafeLine (F9)    | Pre-Filter | 366.0 ft <sup>2</sup> or 34 m <sup>2</sup> |
| Part # 16175 | HEPA (H14)       | Particle   | 107.6 ft <sup>2</sup> or 10 m <sup>2</sup> |
| Part # 16191 | Activated Carbon | Gas/Odor   | 55 lbs or 50 liters                        |

## ACCESSORIES



CONNECTION KITS



SPARK ARRESTORS



HARTING CONNECTIONS



COMMUNICATION CABLE



SIGNAL MODULE

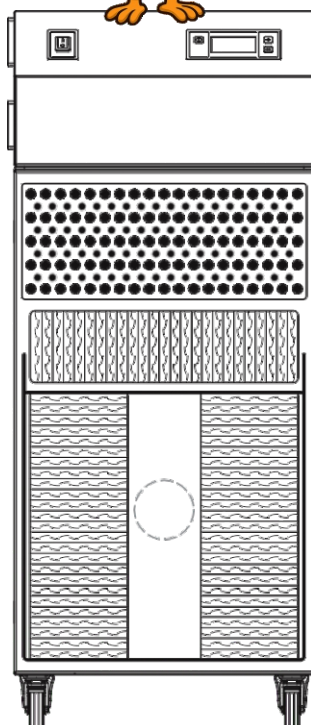
**FILTERS INSTALLED**  
50 L OF ACTIVATED CARBON  
HEPA H14 PARTICLE FILTER  
LARGE 34 M<sup>2</sup> PRE-FILTER



| SYSTEM AND FACTORY-INSTALLED OPTIONS              | Part #      |
|---------------------------------------------------|-------------|
| TFS 1000 PLUS (100-240V)                          | 90416       |
| TFS 1000 with Extraction Arm 100-AL (L=47 inches) | 90416-16698 |



## TFS 500 PLUS



### TFS 500 PLUS TECHNICAL DATA

|                    |              |                     |              |       |
|--------------------|--------------|---------------------|--------------|-------|
| Free Airflow       | 120V: 264    | CFM                 | 120v: 450    | m³/hr |
|                    | 230V: 294    |                     | 230v: 500    |       |
| Effective Airflow  | 120V: 30-235 | CFM                 | 120V: 50-400 | m³/hr |
|                    | 230V: 30-265 |                     | 230V: 50-450 |       |
| Static Pressure    | 60.3         | in/H <sub>2</sub> O | 15,000       | PA    |
| Voltage            | 120          | V                   | NEMA 5-20    | Plug  |
|                    | 230          |                     | NEMA 6-20    |       |
| Intake Socket      | 4.9          | inches              | 125          | mm    |
| Outlet Socket      | 6.3          | inches              | 160          | mm    |
| Weight             | 331          | lbs                 | 150          | kg    |
| Dimensions (HxWxD) | 52x22x29     | inches              | 1300x540x730 | mm    |

### TFS 500 PLUS FILTER DATA

|              |                  |            |                     |
|--------------|------------------|------------|---------------------|
| Part # 16196 | SafeLine (F9)    | Pre-Filter | 366.0 ft² or 34 m²  |
| Part # 16175 | HEPA (H14)       | Particle   | 107.6 ft² or 10 m²  |
| Part # 16191 | Activated Carbon | Gas/Odor   | 55 lbs or 50 liters |



## ACCESSORIES



CONNECTION KITS



SPARK ARRESTORS



HARTING CONNECTIONS



COMMUNICATION CABLE



SIGNAL MODULE



FIG.1



FIG.2



FIG.3



FIG.4

| SYSTEM AND FACTORY-INSTALLED OPTIONS                                         | Part #      |
|------------------------------------------------------------------------------|-------------|
| <i>TFS 500 PLUS (120V)</i>                                                   | 90431       |
| <i>TFS 500 PLUS (230V)</i>                                                   | 90429       |
| <i>TFS 500 with Spark Extinguisher and Gravity Drop-Out Chamber (Fig. 1)</i> | 904xx-20512 |
| <i>TFS 500 with Spark Extinguisher (Fig. 2)</i>                              | 904xx-20464 |
| <i>TFS 500 with Extraction Arm 75-AL (L=47 inches) (Fig. 3)</i>              | 904xx-17055 |
| <i>TFS 500 with Extraction Arm 75-AL and Spark Extinguisher (Fig. 4)</i>     | 904xx-17056 |
| <i>TFS 500 with Extraction Arm 100-AL (L=47 inches) (Fig. 3)</i>             | 904xx-16698 |

## LN 610 SYSTEM

| TECHNICAL DATA       | UNITS                | LN 610                          |
|----------------------|----------------------|---------------------------------|
| Free Airflow         | m <sup>3</sup> /hr   | 2,000                           |
|                      | CFM                  | 1,177                           |
| Effective Airflow*   | m <sup>3</sup> /hr   | 300-1500                        |
|                      | CFM                  | 176-883                         |
| Static Pressure      | PA                   | 5,500                           |
|                      | in/H <sub>2</sub> O  | 22.1                            |
| Voltage              | V                    | 380-480 (3P+ PE)                |
| Power Connection     | HAN6ES, 6-pin, 3P+PE |                                 |
| Interface Connection | HAN6B, 24-pin        |                                 |
| Motor Output         | kW                   | 3.0                             |
| Sound Level          | db(A)                | 70                              |
| Inlet/Outlet Ports   | Size                 | Inlet - 200mm<br>Outlet - 250mm |

\*Max effective flow is approx. 200m<sup>3</sup>/hr (118 CFM) lower on LN 610 ZSA models



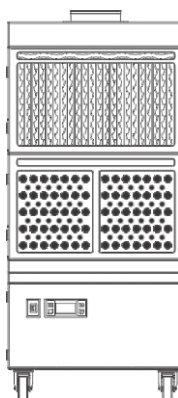
## FILTER CONFIGURATIONS



| DATA             | STANDARD                                  | LN 610-A             | LN 610-ZS                                 | LN 610-ZA                                 |
|------------------|-------------------------------------------|----------------------|-------------------------------------------|-------------------------------------------|
| Pre-Filter (F9)  | (M5) Mat                                  | (M5) Mat             | 688.9 ft <sup>2</sup> / 64 m <sup>2</sup> | 688.9 ft <sup>2</sup> / 64 m <sup>2</sup> |
| HEPA (H13/H14)   | 430.6 ft <sup>2</sup> / 40 m <sup>2</sup> |                      | 150.7 ft <sup>2</sup> / 14 m <sup>2</sup> | 150.7 ft <sup>2</sup> / 14 m <sup>2</sup> |
| Activated Carbon | 132 lbs / 120 Liters                      | 132 lbs / 120 Liters |                                           | 57.2 lbs / 52 Liters                      |
| System Weight    | 618 lbs / 280 kg                          | 419 lbs / 190 kg     | 463 lbs / 210 kg                          | 662 lbs / 300 kg                          |
| System Height    | 61 in / 1,530 mm                          | 44 in / 1,100 mm     | 63 in / 1,600 mm                          | 71 in / 1,800 mm                          |

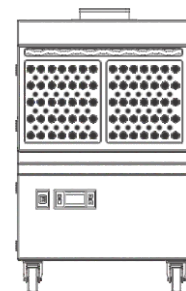
## LN 610 STANDARD

| Description                                      | Part # |
|--------------------------------------------------|--------|
| <i>LN 610 Standard Model</i>                     | 90033  |
| <i>Pre-Filter Mat (F5)<br/>Box of 10 Filters</i> | 12257  |
| <i>HEPA (H13) Particle Filter</i>                | 12258  |
| <i>Activated Carbon 120 Liters</i>               | 13190  |



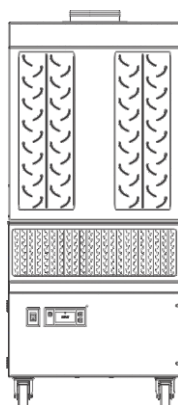
## LN 610-A SYSTEM

| Description                                      | Part # |
|--------------------------------------------------|--------|
| <i>LN 610-A Model</i>                            | 90047  |
| <i>Pre-Filter Mat (M5)<br/>Box of 10 Filters</i> | 12257  |
| <i>Activated Carbon 120 Liters</i>               | 13190  |



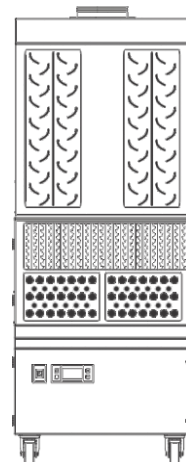
## LN 610-ZS

| Description                       | Part # |
|-----------------------------------|--------|
| <i>LN 610-ZS Model</i>            | 90455  |
| <i>Z-Line Filter (F9)</i>         | 16871  |
| <i>HEPA (H14) Particle Filter</i> | 15951  |



## LN 610-ZSA SYSTEM

| Description                       | Part # |
|-----------------------------------|--------|
| <i>LN 610-ZSA Model</i>           | 90453  |
| <i>Z-Line Filter (F9)</i>         | 16871  |
| <i>HEPA (H14) Particle Filter</i> | 15951  |
| <i>Activated Carbon 52 Liters</i> | 14517  |



## OPTIONAL ACCESSORIES



CONNECTION KITS



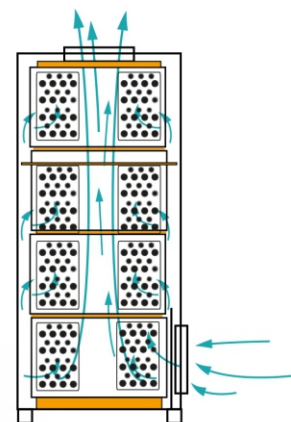
SIGNAL MODULE



COMMUNICATION CABLE



REMOTE CONTROL



| Activated Carbon Separator                | Part # |
|-------------------------------------------|--------|
| <i>AC-Separator 165 lbs or 150 liters</i> | 90461  |
| <i>AC-Separator Carbon Replacement</i>    | 20225  |

## LN 615 SYSTEM

| TECHNICAL DATA       | UNITS                | LN 615                         |
|----------------------|----------------------|--------------------------------|
| Free Airflow         | m <sup>3</sup> /hr   | 500                            |
|                      | CFM                  | 294                            |
| Effective Airflow*   | m <sup>3</sup> /hr   | 100-450                        |
|                      | CFM                  | 59-265                         |
| Static Pressure      | PA                   | 15,000                         |
|                      | in/H <sub>2</sub> O  | 60.3                           |
| Voltage              | V                    | 230 or 380-480V                |
| Power Connection     | HAN6ES, 6-pin, 3P+PE |                                |
| Interface Connection | HAN6B, 24-pin        |                                |
| Motor Output         | kW                   | 1.8                            |
| Sound Level          | db(A)                | 70                             |
| Inlet/Outlet Ports   | Size                 | Inlet - 80mm<br>Outlet - 250mm |

\*Max effective flow is approx. 50m<sup>3</sup>/hr (30 CFM) lower on ZSA models



## FILTER CONFIGURATIONS

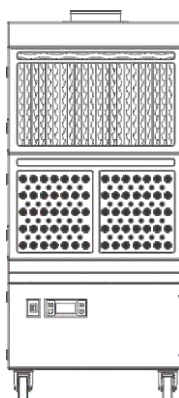


| DATA             | STANDARD                                  | LN 615-A             | LN 615-ZS                                 | LN 615-ZA                                 |
|------------------|-------------------------------------------|----------------------|-------------------------------------------|-------------------------------------------|
| Pre-Filter (F9)  | (M5) Mat                                  | (M5) Mat             | 688.9 ft <sup>2</sup> / 64 m <sup>2</sup> | 688.9 ft <sup>2</sup> / 64 m <sup>2</sup> |
| HEPA (H13/H14)   | 430.6 ft <sup>2</sup> / 40 m <sup>2</sup> |                      | 150.7 ft <sup>2</sup> / 14 m <sup>2</sup> | 150.7 ft <sup>2</sup> / 14 m <sup>2</sup> |
| Activated Carbon | 132 lbs / 120 Liters                      | 132 lbs / 120 Liters |                                           | 57.2 lbs / 52 Liters                      |
| System Weight    | 618 lbs / 280 kg                          | 419 lbs / 190 kg     | 463 lbs / 210 kg                          | 662 lbs / 300 kg                          |
| System Height    | 61 in / 1,530 mm                          | 44 in / 1,100 mm     | 63 in / 1,600 mm                          | 71 in / 1,800 mm                          |



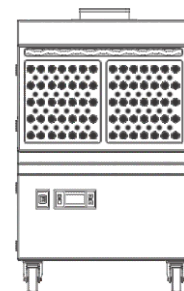
## LN 615 STANDARD

| Description                                      | Part # |
|--------------------------------------------------|--------|
| <i>LN 615 Standard Model</i>                     | 90257  |
| <i>Pre-Filter Mat (F5)<br/>Box of 10 Filters</i> | 12257  |
| <i>HEPA (H13) Particle Filter</i>                | 12258  |
| <i>Activated Carbon 120 Liters</i>               | 13190  |



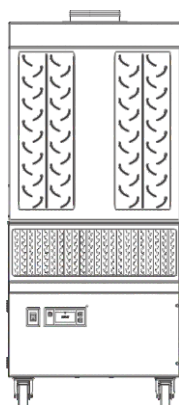
## LN 615-A SYSTEM

| Description                                      | Part # |
|--------------------------------------------------|--------|
| <i>LN 615-A Model</i>                            | 90256  |
| <i>Pre-Filter Mat (M5)<br/>Box of 10 Filters</i> | 12257  |
| <i>Activated Carbon 120 Liters</i>               | 13190  |



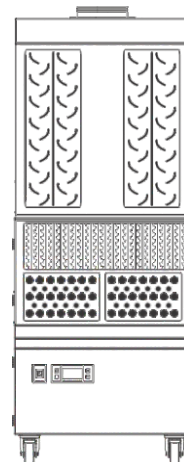
## LN 615-ZS

| Description                       | Part # |
|-----------------------------------|--------|
| <i>LN 615-ZS Model</i>            | 90456  |
| <i>Z-Line Filter (F9)</i>         | 16871  |
| <i>HEPA (H14) Particle Filter</i> | 15951  |



## LN 615-ZSA SYSTEM

| Description                       | Part # |
|-----------------------------------|--------|
| <i>LN 615-ZSA Model</i>           | 90454  |
| <i>Z-Line Filter (F9)</i>         | 16871  |
| <i>HEPA (H14) Particle Filter</i> | 15951  |
| <i>Activated Carbon 52 Liters</i> | 14517  |



## OPTIONAL ACCESSORIES



CONNECTION KITS



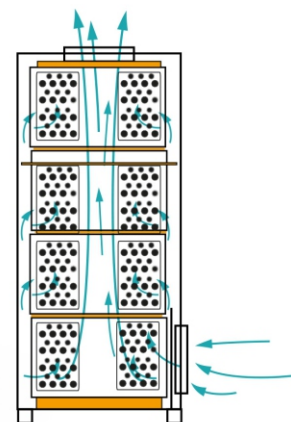
SIGNAL MODULE



COMMUNICATION CABLE



REMOTE CONTROL



| Activated Carbon Separator                | Part # |
|-------------------------------------------|--------|
| <i>AC-Separator 165 lbs or 150 liters</i> | 90461  |
| <i>AC-Separator Carbon Replacement</i>    | 20225  |