WE CLAIM

What is claimed is:

1. A work desk 100 comprising:

a cable management raceway 112 extending along, at least partially, a length of the work desk 100 and below the surface of a tabletop 102; and

one or more of electrical wires 116 and data cables 118 laid within the cable management raceway 112;

a ventilation raceway 114 extending along, at least partially, a length of the work desk 100; and

one or more diffusers 128 distributed along and in fluid communication with the ventilation raceway 114,

characterized in that the one or more of electrical wires 116 and data cables 118 are terminated into one or more connectors 120 at one of their ends at an accessible side of the work desk 100, in order to be inserted into one or more corresponding connectors 120 of one or more of a corresponding main supply electrical lines and main supply data lines available at the accessible side,

the one or more of electrical wires 116 and data cables 118 are further terminated into one or more sockets at other of their ends at a personnel side of the work desk 100, in order to provide one or more of electrical and data supply for one or more personnel occupying the work desk 100,

the ventilation raceway 114 is adapted to be arranged in fluid communication with an air distribution duct 614 to receive treated air therefrom, and

the one or more diffusers 128 is configured to disperse treated air from the ventilation raceway 114 towards the one or more personnel occupying the work desk 100, the one or more diffusers 128 being adaptable to be partially and fully opened and closed to regulate the dispersion of the treated air.

2. The work desk 100 of claim 1, wherein each of the one or more diffusers 128 is a linear diffuser.

3. The work desk 100 of claim 1, wherein the ventilation raceway 114 is made of one of aluminum, mild steel and galvanized iron.

4. The work desk 100 of claim 1, wherein the ventilation raceway 114 is provided with a nitrile insulation to avoid condensation of treated air thereon.

5. The work desk 100 of claim 1, wherein the ventilation raceway 114 is rectangular in cross-section, with a height of approximately 300 millimeters and a width of approximately 100 millimeters.

6. The work desk 100 of claim 1 further comprising one or more flip top boxes built therein, the one or more flip top boxes 124 adapted to accommodate the one or more sockets therein.

7. The work desk 100 of claim 1, wherein the one or more of electrical wires 116 and data cables 118 are terminated into one or more male connectors 120 at one of their ends at an accessible side of the work desk 100, in order to be inserted into one or more female connectors 120 of one or more of a corresponding main supply electrical lines and main supply data lines available at the accessible side.

8. The work desk 100 of claim 1 further comprising at least one organization stand 130 built therein, wherein the organization stand 130 comprises one or more of a pen stand, a book stand and a file stand.

9. The work desk 100 of claim 1 further comprising a tabletop 102 extending along the length thereof.

10. A workstation system 600 comprising:

    a cluster of work desks 602, 604 connected to each other to be arranged in a predefined configuration;

a cable management raceway 606 extending along, at least partially, a length of the predefined configuration of the connected work desks 602, 604 and below the surface of a tabletop 610;

one or more of electrical wires 116 and data cables 118 laid within the cable management raceway 606;

a ventilation raceway 608 extending along, at least partially, a length of the predefined configuration of the connected work desks 602, 604; and

one or more diffusers 616 distributed along and in fluid communication with the ventilation raceway 608,

characterized in that the one or more of electrical wires 116 and data cables 118 are terminated into one or more connectors 120 at one of their ends at an accessible side of one of the work desks 602, 604, in order to be inserted into one or more corresponding connectors 120 of a corresponding main supply electrical lines and main supply data lines available at the accessible side,

the one or more of electrical wires 116 and data cables 118 are further terminated into one or more sockets at other of their ends at a personnel side of each of the work desk 100, in order to provide one or more of electrical and data supply for one or more personnel occupying the cluster of work desks 602, 604,

the ventilation raceway 608 is adapted to be arranged in fluid communication with an air distribution duct 614 to receive treated air therefrom, and

the one or more diffusers 616 is configured to disperse treated air from the ventilation raceway 608 towards the one or more personnel occupying the cluster of work desks 602, 604, the one or more diffusers 616 being adaptable to be partially and fully opened and closed to regulate the dispersion of the treated air.

11. The workstation system 600 of claim 10 further comprising one or more flip top boxes 612 built into one or more of the work desks 602, 604, the one or more flip top boxes 612 adapted to accommodate the one or more sockets therein.

12. The workstation system 600 of claim 10 further comprising a tabletop 610 extending along the length of the predefined configuration of the connected work desks 602, 604.

13. A method of assembling a workstation system 600, the method comprising:

providing a cluster of pre-fabricated work desks 602, 604 with ventilation channels and cable management channels formed therein;

connecting the cluster of work desks 602, 604 to each other to be arranged in a predefined configuration, such that the ventilation channels are coupled together to form a ventilation raceway 608 extending along, at least partially, a length of the predefined configuration of the connected work desks 602, 604 and adapted to be disposed in fluid communication with an air distribution duct 614 to receive treated air therefrom, and the cable management channels are coupled together to form a cable management raceway 606 extending along, at least partially, a length of the predefined configuration of the connected work desks 602, 604;

providing one or more diffusers 616 distributed along and in fluid communication with the ventilation raceway 608 such that the one or more diffusers 616 are configured to disperse treated air from the ventilation raceway 608 towards one or more personnel occupying the work desks 602, 604, the one or more diffusers 616 being adaptable to be partially and fully opened and closed to regulate the dispersion of the treated air; and

laying one or more of electrical wires 116 and data cables 118 within the cable management raceway 606, with the one or more of electrical wires 116 and data cables 118 being terminated into one or more connectors 120 at one of their ends at an accessible side of one of the work desks 602, 604 in order to be inserted into one or more corresponding connectors 120 of one or more of corresponding main supply electrical lines and main supply data lines available at the accessible side and further terminated into one or more sockets at other of their ends at a personnel side of each of the work desks 602, 604 in order to provide one or more of electrical and data supply for the one or more personnel occupying the cluster of work desks 602, 604.