

Air Tight Doors (ATD)

Global Cleanrooms developed Air Tight Door (ATD series), which are easy to operate. ATD are applied in classified cleanroom areas to create and ensure fully protected gastight zones, and isolate areas from each other to prevent cross contamination or gas exhaust. ATD are used in many manufacturing industries like Biotech/Pharma/Bio-safety Laboratories and nuclear facilities. The ATD system uses Siemens S7-1200 to achieve Air Tight door interlock and fumigation function. The touch screens which are installed beside the ATD are used to monitor system operation and to change settings.

Material description for 2-door ATD system

Door frame & door leaf	: Stainless steel 304/316 or powder coated in any RAL color : To ensure good decontamination ability, welds are performed : continuously and free of gaps
Sizes	: According requirements
Inflatable gasket	: Milaty – Q175 – FDA approved
Handle	: Stanley - Stainless steel 304/316
Hinges	: GCR - Stainless steel 304/316, test cycles > 200.000
Manual door closer	: KABA
Vision window	: Double glazed with safety glass
Push button	: Omron – GQ25-11E
Emergency button	: Omron – GQ25-11ZE
Indication light	: Omron – GQ25-E
Magnet lock	: GCR-180
Motion detector	: Security – E-807N
Touch screen	: Kinco – MT4523TE
Software	: TIA V13 SP1
Control cabinet	: GCR – stainless steel 304/316
PLC in control box	: Siemens S7-1200 (customized)
Hardware	: CPU1215C (according requirements)
VHP	: According requirements
Clean compressed air	: GCR – CCA-2D