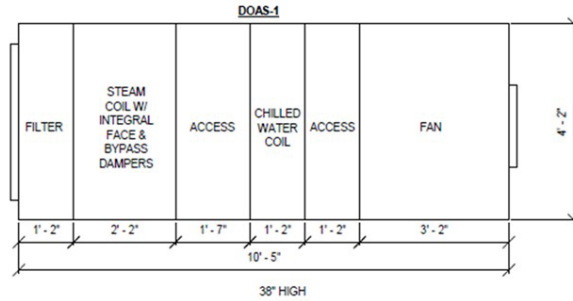
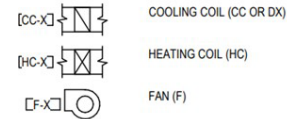




48-798 HVAC & Power Supply for Low Carbon Buildings



AIRSIDE EQUIPMENT



1 DOAS-1 UNIT DETAIL
M-501 1/2" = 1'-4"

TAG	SERVICE	TOTAL CFM	APPROX WEIGHT (LBS)	REFERENCE MANUFACTURER & MODEL
DOAS-1	STUDIO 312	3000	1700	TRANE CLIMATE CHANGER SIZE 8

1. CONTROL WITH VFD.

Excerpt from MMCH 3rd floor studio ventilation system drawings

48-798 HVAC & Power Supply for Low Carbon Buildings

9 Units

Nina Baird, PhD

Course Description:

What type of mechanical systems and power supply choices work effectively within a well-designed building envelope to create comfortable and healthful low-carbon buildings? 48798 is a graduate course that focuses on heating, cooling, ventilation, and power supply systems for new and future commercial buildings. It provides an introduction to HVAC and power supply needs and to system choices likely to produce comfortable and healthful buildings that help us move toward a zero-carbon future. It is intended to engage students in consideration of sustainable choices for commercial buildings and how those choices may vary by building type and project location. The course should also strengthen students' understanding of these systems to prepare for 48-722, Building Performance Modeling.

Students will learn the fundamental components and operations of these systems, sufficient to understand how they impact building design and the environment. Current (2021) US commercial building codes, current ASHRAE standards, and climate zones will be referenced for system design, although we will also consider code requirements from EU countries, and from China and India, to provide additional perspective.