

Univee® 4 & 420 multilayer bag filters

INTRODUCTION

Univee 4 bags have an extended media area and fit most sizes and makes of frame. They are made in four grades for a wide range of general air conditioning applications in offices, shopping centres, hotels, public buildings, hospitals, pharmaceutical factories and other industries requiring clean conditions. The bags are self supporting and particularly suitable for variable air volume systems. The built in prefilter layer ensures long life, saves space and reduces installation costs. Univee 4 bags are designed for clean or dirty side servicing.

CONSTRUCTION

Each bag is made up from three distinct layers. The first acts as a prefilter, the second is for fine filtration and the third prevents fibre migration. They are sealed into a coated mild steel header and are supplied in three module sizes containing 5, 4 or 3 bags.

Fire Resistant Bags – Univee 420 filters have been tested and approved by London Scientific Services for compliance with the flammability requirements of CP413 Ducts for Building Services. These filters are inherently non-flammable and if ignited will generate minimal smoke or toxic gases.



RANGE

Univee 4 Univee 420 (Fire Resistant)				U4 U420	Designation		
					Frame Size	Bag Length	Grade
To fit frame sizes (mm)							
Height	Width	Header Depth	Number of Bags				
610	610	20	5	60			
610	610	25	5	65			
610	508	20	4	50			
610	508	25	4	55			
610	305	20	3	30			
610	305	25	3	35			
Bag Lengths mm							
380					1		
550					2		
635					3		
750					4		
Grade							
EUROVENT 4/5 test procedure at nominal air flows							
Average Dust Spot Efficiency %	Average Synthetic Dust Arrestance %	Eurovent Rating EU No					
—	85/90	EU3					S E F SF
45	90/95	EU5					
80/85	98-0	EU7					
90/95	99-5	EU8					

HOW TO SPECIFY

U4/60/1/S = Univee 4 – To fit frame size 610 × 610 with header depth 20mm, 380mm Long Bags, Standard Grade with Average Synthetic Dust Arrestance 85/90%

U420/55/3/F = Univee 420 – Fire Resistant Specification, To fit frame size 610 × 508 with header depth 25mm, 635mm Long Bags, Fine Grade with Average Dust Spot Efficiency 85%.

AIR FLOW

Frame Sizes (mm)	Recommended Air Flow Ranges m ³ /h Bag Lengths mm			
	380	550	635	750
610 × 610	1350-2000	2000-3000	2400-3400	2750-4000
610 × 508	1150-1700	1700-2500	2000-2850	2300-3350
610 × 305	675-1000	1000-1500	1200-1700	1375-2000

NOTE: Recommended Air Flow Ranges apply to all filter grades

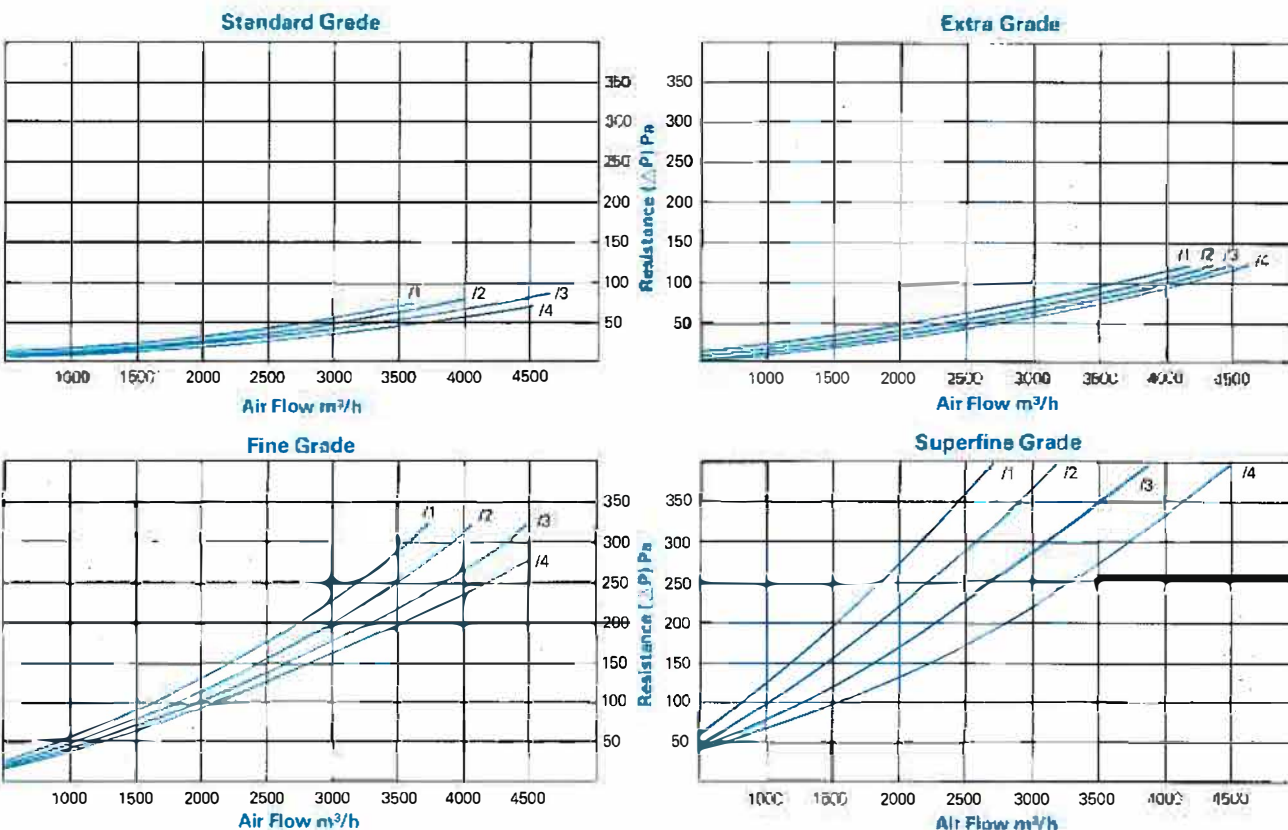
PRESSURE DROP

Maximum recommended final:
 Standard and Extra Grades 350 Pa
 Fine and Superfine Grades 650 Pa
 (10 Pa ≈ 1mm w.g.)

TEMPERATURE & HUMIDITY

Maximum working temperature (continuous):
 Univee 4 120°C
 Univee 420 140°C
 Maximum relative humidity:
 All Grades except Standard 100%
 Standard Grade 80%

RESISTANCE



NOTE: Initial Resistance/Flow Rate – For 610 × 610 mm Filter

FRAMES

VOKES can supply a comprehensive range of front and side withdrawal frames for Univee 4 and 420 bag filters, with a 25mm deep header. Modular in design, bag filter installations of various sizes and configurations can be assembled, based on the standard range of bag filter sizes.



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