

OSHA's APF Final Standard (reference 63 FR 1152; 29 CFR 1910.134; 71 FR 50122, August 24, 2006) went into effect November 22, 2006 (71 FR 50122). The Standard added definitions and requirements for Assigned Protection Factors (APFs) and Maximum Use Concentrations (MUCs). That guidance document presents mandatory selection provisions and their role in the overall Respiratory Protection standard. The provisions can only be used when respirators are properly selected and used in compliance with the final Respiratory Protection standard (29 CFR 1910.134 and 29 CFR 1926.103)

APF means the workplace level of respiratory protection that a respirator or class of respirators is expected to provide to employees when the employer implements a continuing, effective respiratory protection program.

Table I on page 14 of the OSHA "Assigned Protection Factors for the Revised Respiratory Protection Standard", OSHA 3352-02 2009, <https://www.osha.gov/sites/default/files/publications/3352-APF-respirators.pdf>) indicates the Assigned Protection Factors for the Different Types of Respirators. Only that portion of the Table relating specifically to PAPRs is reproduced below.

**Table I: Assigned Protection Factors<sup>5</sup>**

Type of Respirator <sup>1,2</sup>	Quarter Mask	Half Mask	Full Facepiece	Helmet/Hood	Loose-fitting facepiece
Powered Air-Purifying Respirator (PAPR)	-	50	1,000	25/1,000 <sup>4</sup>	25

<sup>4</sup>The employer must have evidence provided by the respirator manufacturer that testing of these respirators demonstrates performance at a level of protection of 1,000 or greater to receive an APF of 1,000. This level of performance can best be demonstrated by performing a WPF or SWPF study or equivalent testing. Absent such testing, all other PAPRs and SARs with helmets/hoods are to be treated as loose-fitting facepiece respirators, and receive an APF of 25.

MAXAIR Systems PAPR configurations are either the Helmet/Hood (Hood and Shroud) or Loose-fitting facepiece (Cuff) configurations.

MAXAIR CAPR configurations have been tested and the demonstrated performance levels relative to APF as indicated in the table below.

		FILTER							
		NIOSH FILTER CLASS: PAPR HE							
		Integrated with Hood	2180-05	2167-10 XP		2166-10 XP N-OV		2164-10 HE	
<b>HELMETS</b>  (Approved for Headcovers indicated)		2070-03	2081-03	2070-03	2083-03	2070-03	2083-03	2070-03	2083-03
		2075-03	2083-03	2075-03		2075-03		2075-03	
		2081-03		2081-03		2081-03		2081-03	
		2084-03							
NIOSH FILTER CLASS:		APF							
<b>HOOD (Integrated Filter) :</b>									
PAPR HE	2271PS-07ML, 2271PS-07SM	25							
PAPR HE	2271PB-07ML, 2271PB-07SM	1,000							
PAPR HE	2272PB-07ML, 2272PB-07SM	1,000							
PAPR100-N	2271PS-100ML, 2271PS-100SM	25							
PAPR100-N	2271PB-100ML, 2271PB-100SM	25							
PAPR100-N	2272PB-100ML, 2272PB-100SM	25							
PAPR100-N	2281PR-100	25							
PAPR100-N	2281PRS-100	1,000							
<b>SHROUD:</b>									
	2260-05ML, 2260-05SM		25	1,000		1,000		25	
	2261-01ML, 2261-01SM		25	1,000	1,000	1,000		25	
	2264-01ML, 2264-01SM		25		1,000		1,000		25
<b>CUFF:</b>									
	2365-02ML, 2365-02SM		25	25		25		25	
	2366-02ML, 2366-02SM		25		25		25		25